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Viale delle Terme di Caracalla, Rome, Italy

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CURRENT BIBLIOGRAPHY FOR AQUATIC SCIENCES AND FISHERIES

INDEXES TO SUPPLEMENT 1

prepared by  
Biology Branch, Fisheries Division



Geographic Index, Suppl. 1  
Taxonomic Index, Suppl. 1  
Subject Index, Suppl. 1  
Citation Index, Suppl. 1

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Curr.Bibliogr.aquat.Sci.Fish., 1, Suppl. (Index)      Rome 1961

Contains geographic, taxonomic, subject and citation indexes  
to references 570001 - 571944

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To Suppl.1

On the cover page "Containing:

references 570001-571994...."should read "Containing references 570001-571944...."

- 570026 Thunnus thynnus should read Thunnus thynnus  
0027 Chirosoma should read Chirostoma  
0029 Gnathostenotroides should read GNATHOSTENETROIDES  
0033 F should read MF  
0041 yellow sea should read Yellow Sea  
0062 Candida should read Candida  
0078 delete the entry  
0092 substitute the entry with the following:

Beadle, L.C. (1957) 570092

Annu. Rev. Physiol., 19:329-58

Comparative physiology: osmotic and ionic regulation in aquatic animals

Reviews literature up to July 1956.

Deals with all taxonomic groups, with emphasis on comparison of marine and freshwater forms.

FiB:sjh

MF

- 0106 polychaeta should read Polychaeta  
0110 coelenterata should read Coelenterata  
0139 V.stromia should read B.stromia  
0250 delete the last sentence of the annotation:  
"Something like this perhaps for model; the report generally follows this pattern."  
0257 Paudalus should read Pandalus  
0472 gewässer should read Gewässer  
" bedingungen should read Bedingungen  
0484 Nebula should read nebula  
0529 gulf of Mexico should read Gulf of Mexico  
0530 Parundinella should read PARUNDINELLA  
0567 J.H. Mundi in the  
5th sentence of  
the annotation should read J.H. Mundie

570568	<u>Crystallolithus</u>	should read	CRYSTALLOLITHUS
0625	Author	should read	"Union of South Africa. Government ....."
0713	)		
0743	)		
0764	)		
1067	)		
1114	)		
1150	)		
1164	)		
1264	)		
1290	)		
1422	)		
1433	)	Reference should read	"Paper presented at the 38th annual meeting, American Geophysical Union, Washington, D.C., April 29-May 2 1957"
1465	)		
1511	)		
1570	)		
1646	)		
1684	)		
1760	)		
1779	)		
1843	)		
0739	Acanthaires	should read	acanthaires
0800	<u>Therogra</u>	should read	<u>Theragra</u>
0813	Tricoptera	should read	Trichoptera
0814	mitteilung	should read	Mitteilung
0814	wassergehaltes	should read	Wassergehaltes
0814	schollen	should read	Schollen
0814	klieschen	should read	Klieschen
0856	Luminescence	should read	luminescence



570858	Murmanskaya biologicheskaya stantsiya	should read	Murmanskaia biologicheskaiia stantsiia
0900	wassers	should read	Wassers
0957	<u>Cpistorchis</u>	should read	<u>Cpisthorchis</u>
0957	(in freshwater fish: <u>Cyclops</u> and <u>Diaptomus</u> )	should read	(in freshwater copepods: Cyclops and Diaptomus)
1040	Author	should read	Macan, T.T. and J.C. Mackereth
1060	Tubellaria	should read	Turbellaria
1162	<u>Boregadus saida</u>	should read	<u>Boreogadus saida</u>
1172	tube-warm	should read	tube-worm
1195	Reference	should read	<u>Hydrobiologia</u> , 9(4):348-60
5711224		should read	571224
1274	fih	should read	fish
1386	insert the omitted reference:		<u>Limnol.Oceanogr.</u> , 2(3):281-6
1441	Saskatchewan	should read	Saskatchewan
1641	Synopsis	should read	Synopses
1718	Langudock	should read	Languedock
1737	fund	should read	Fund
1751	<u>Scaphipus</u>	should read	<u>Scaphiopus</u>
1796	<u>percidae</u>	should read	<u>Percidae</u>
1812	delete the entry		
1834	Iwashi	should read	iwashi
1843	<u>Cassopeia</u>	should read	<u>Cassiopea</u>







Geographic Index, Supplement 1  
for references 570001 to 571944

100	AFRICA	0412	0882	1814	155	Transvaal		0292
					156	Madagascar	0405	1902
110	Africa, N.W.	0246	0538	0840				
	1022				200	NORTH AMERICA	1104	1142
111	Tunisia		0174	1279				
112	Algeria	0415	0432	to 0435	210	<u>Canada</u>	0140	0154 0248
		0462	0738	1157 1704			0249 0250	0324 0395
		1705					0426 0758	0790 0796
113	Morocco	0561	1068	1069			0798 0995	1042 1115
121	Libya			1267			1246 1373	1400 1456
122	UAR, Southern Region (Egypt)		0287	1594			1472 1478	1500 1504
123	Sudan			1594	211	Canadian Arctic	1682 1720	1777 1863
130	<u>Africa, E. Central</u>	0347	0552			Canada, N.W. Territories	1369	1680
	1028 1029	1045	1496				0790 0893	1019 1441
132	Uganda	0346	0639	1656	212	British Columbia	0009	0142
133	Tanganyika	0558	0726	0831			0233 0245	0637 0757
	0832						0983 1007	1119 1167
134	Zanzibar and Pemba			1593			1198 1261	1268 1330
140	Africa, W. Central	0552	1045				1503 1584	1585 1644
	1867 1893						1719 1744	
141	Republic of the Ivory Coast	0406	0964	1917	213	Alberta	0325	0362 0649
	Islamic Republic of Mauritania		0406		215	Saskatchewan		1441
	Republic of Niger		0371	216		Quebec	0155	1728 1729
	Republic of Senegal	0445	0446				1730	
		0512 0644	0767 0836			Labrador	0147	0148 0614
	1089						1531 1608	1760
144	Sierra Leone	0979	1118	1756		Newfoundland	0414	0518
	Ghana			0215			0790 0970	0985 1608
145	Br. Cameroons			0082	217		1613 1628	
146	Republic of Congo	0596	1869			St. Pierre and Miquelon		1608
147	Federal Republic of the Congo	0410	1363			New Brunswick	0541	0602
150	<u>Africa, S.</u>	0559	1496	1499			1608 1862	
	1869					Nova Scotia	0156	0157 0541
151	Angola	0370	1233	1405			0616 0969	0985 1094
152	S.W. Africa			0841	220		1096 1608	1626
154	Union of S. Africa	0205	0234			Prince Edward I.	0541	0969
		0388 0409	0611 0681				1472 1501	
		1041 1058	1177			<u>Alaska</u>	0635	0728 1162
							1396 1881	
					222	Aleutian Is.		0136 0735
							1472 1605	1789

79040

223	Pribilof Is.				1472	235	Mississippi	0032	0033	0034
230	<u>USA</u>	0031	0149	0150	0222			0065	0653	0656
		0235	0261	0390	0497			0731	1221	0704
		0653	0660	0765	0783		New Mexico	0763	0924	1356
		0785	0788	0790	0796		Oklahoma	0189	0448	1340
		0822	0830	0842	0845		Tennessee			1432
		0846	0998	1036	1053		Texas	0032	0033	0034
		1070	1091	1108	1137			0418	0536	0653
		1138	1176	1182	1218			0763	1221	1324
		1243	1256	1257	1258			1340	1356	1325
		1317	1318	1326	1327	236	New England		1114	1381
		1372	1435	1443	1564		Connecticut		0224	1454
		1606	1645	1673	1674		New Hampshire			1183
		1675	1676	1677	1678		Maine	0065	0339	0447
		1679	1681	1682	1798			1522		1047
		1804	1805	1923	1932		Massachusetts		0837	1364
	District of Columbia			0065	0324			1365	1439	1639
231	Idaho	0120	0455	0456	0824			1809		1693
		1093					Rhode I.			1545
	Oregon	0229	0728	1167	1217	237	Delaware	0585	0855	1580
		1935					Maryland		1056	1083
	Washington State	0015	0637	0728			New Jersey		0320	0620
		1242	1321	1323	1417		New York	0197	0224	0349
		1611	1644					0691	0850	1018
232	California	0011	0083	0118	0119			1146	1245	1316
		0239	0240	0241	0242		Pennsylvania	0600	1878	1918
		0333	0618	0667	0728			1919		
		0766	0823	0884	0885		Virginia	0037	0038	0509
		1090	1106	1167	1188			0658	0694	1095
		1197	1328	1351	1401			1775		1724
		1402	1520	1614	1786	238	S. Atlantic States			0186
		1787	1855	1922			N. Carolina	0032	0033	0034
	Utah			1093	1686			0065	0330	1039
233	Colorado				1248		S. Carolina	0032	0033	0034
	Montana				0331		Georgia		0756	1175
	Wyoming				0332		Florida	0013	0032	0033
234	Iowa		0254	0636				0034	0065	0421
	Kansas		1292	1424				0534	0653	0702
	Michigan	0086	0160	1754				1208	1214	1221
	Minnesota	0509	0636	1123				1355	1548	1551
	Missouri	0509	0636	1084				1808		1739
	Ohio		0243	0888		240	<u>Bermudas</u>			1565
	Wisconsin	0296	0636	0960		250	<u>Greenland</u>	0927	1105	1315
235	USA, S.			0990				1514		
	Alabama	0032	0033	0034	0065					
		0653	0731	1221		300	LATIN AMERICA			
	Louisiana	0032	0033	0034	0065					
		0389	0653	1027	1221	310	<u>Mainland Central America</u>			0408
		1247	1521	1734	1745			1104	1559	1931
		1901	1933			315	Panama			0286

317	Honduras				1168	432	Thailand	0419	0783	1620
320	Caribbean Is.				1230		1621			
321	Bahamas	0033	0164	0259	0421	433	Malaya		0783	1444
		1244	1520			434	Indonesia		0783	1690
	Br.Caribbean Federation			0549	1415	435	New Guinea (Neth.)			0956
				1843		436	N. Borneo			0786
322	Cuba	0061	1487		1548	437	Philippines		0783	1255
325	Puerto Rico	0461	0789	1062	1144	438	Cambodia			0783
		1346					Thailand		0383	0783
	Virgin Is.(U.S.)				0549	441	Chinese People's			
326	Guadeloupe				1148		Republic		0291	0759
327	Neth.W.Indies			1846	1847		Manchuria			0482
331	Colombia				0474	444	Korea			0783
332	Venezuela	0402	1092	1241		451	Japan	0058	0059	0060
340	S.America, W.	0630	1110	1438				0348	0659	0729
324	Peru	0128	0399	1691	1849			0746	0748	to
343	Chile	0399	0400	1055	1849			0776	0777	0780
350	S.America, E.				1110			0783	0796	0802
351	Brazil	0403	0404	1101	1898			0804	0809	0816
		1939						0849	0873	0874
353	Argentina				0918			0880	0907	1111
354	Falkland Is.			0353	1088			1165	1191	1192
								1204	1205	1206
400	ASIA			0584	0784			1211	1212	1215
								1391	1392	1393
410	<u>Asia, S.W.</u>				0516			1590	1602	1603
413	Israel	0108	0307	0490	0510			1638	1683	1742
		0511	0913	0914	0993			1799	1818	1823
		1200	1201	1236	1300			1825	1834	1839
		1406	1455	1540	1591		Japan, Hokkaido		0800	0801
		1592	1636	1746	1773			0889	0890	0903
		1774	1778	1828	1829			0912	1408	1409
		1830						1841	1842	
416	Iraq				1319		Japan, Honshu		0916	0917
417	Iran			0928	1749		1651			
421	Pakistan				0783		Japan, Shikoku		0854	0925
423	India	0123	0124	0125	0265			1129	1463	1464
		0277	0572	0783	0864			1572	1652	1653
		0870	0933	0934	0935	453	Formosa			1937
		0949	0950	0951	1102					
		1124	1235	1240	1265	500	EUROPE		1218	1377
		1287	1311	1312	1313					
		1407	1480	1711	1712	511	Denmark	0152	0373	0374
		1795					0790	1708	1709	1925
424	Ceylon				0783	512	Faroe Is.		1577	1589
430	<u>Asia, S.E.</u>				0784	513	Iceland	0790	0927	1897
431	Burma				0783					



514	Norway	0085	0152	0191	0258	533	England (contd.)	1509	1518
		0621	0640	0693	0790		1527	1596	1597
		0838	0862	0891	0911		1668	1669	1758
		1076	1547	1558	1599		1776	1832	1874
		1767	1791	1870					1938
515	Svalbard			0146	1737		Wales		0275
516	Sweden	0256	0350	0505	0506	534	Scotland	0121	0247
		0740	0774	1051	1079		0736	0770	1105
		1133	1203	1297	1562		1442	1701	1748
		1858				535	Northern Ireland		0152
517	Finland	0843	0847	0987	1001	540	Europe, S.		1037
		1011	1012	1238	1239	541	Portugal	0251	0358
		1383	1384	1385	1389		0790	1202	1251
		1397	1475	1482	1483		1278	1379	1277
		1687	1688			542	Spain	0519	0711
521	Netherlands		0152	0595	0783		0790	0959	1025
		1178	1179	1913			1063	1064	1065
522	Belgium			0152	1857		1271	1395	1399
524	France	0063	0066	0112	0138		1560		1447
		0139	0180	0182	0211	543	Italy	0178	0179
		0274	0282	0327	0328		0502	1000	1052
		0495	0545	0652	0760		1536		1224
		0783	0794	0952	0992		Sardinia		0064
		1075	1078	1250	1273		Sicily		0647
		1274	1298	1436	1581	550	Europe, S.E.		0178
		1610	1622	1649	1718	551	Yugoslavia	1163	1296
		1722	1725	1726	1816	553	Greece		1740
525	Monaco	0941	0942	1143	1251	555	Roumanian Peoples Republic		0295
		1390					0080	0232	0253
530	<u>British Isles</u>		0152	0158	0623		1050	1187	1539
		0709	1171	1172	1302	556	Turkey	0005	0050
		1479	1485	1574	1666		0055	0267	0268
		1940					0486	1231	1617
531	Ireland	0420	0628	1635	1650		1647	1648	1618
		1769	1770	1771	1772		Anatolia		1689
532	United Kingdom	0061	0184	0199		560	<u>Europe, E.Central</u>		1037
		0632	0672	0701	0783	561	Germany	1430	1630
		0790	0967	0997	1194		Federal Republic of		
		1220	1310	1343	1486		Germany	0152	0745
		1506	1577	1589	1670		0791	0940	1002
		1671	1672				1033	1034	1362
533	England	0014	0187	0188	0313		1431		1421
		0314	0338	0396	0494	562	Switzerland		0811
		0571	0617	0771	0902	563	Austria	0470	0593
		1017	1040	1041	1071	570	<u>Europe, E.Central</u>		1474
		1128	1249	1288	1342	571	German Democratic Republic		1037
		1370	1371	1460	1508		0008	0228	1103
							1418	1420	1426
									1428

572	Poland	0569	0812	1848	710	<u>Russian FSSR</u>	0136	0598
573	Czechoslovakia	0464	0487	0868		0858 0937	0944	1049
		0869	0962	1126		1132 1270	1275	1850
574	Hungary	1126	1195	1615	731	Estonian SSR		1467
600	OCEANIA		0982	1380	751	Ukrainian SSR	0807	1262
						1507		
610	<u>Australia</u>	0068	0145	0289	800	SPECIAL INTERCONTINENTAL		
		0783	0926	1074		REGIONAL GROUPINGS		
		1154	1337	1624	812	Southern Hemisphere		0288
		1781	1860	1905	817	Tropics		0724
		1930	1942		820	<u>Antarctic Continent</u>		0945
611	Northern Territory		1380	1811		1004 1661		
612	Western Australia	1359	1360	1525	863	Fr.Community		0650
		1526	1625	1943				
613	S. Australia	0341	0359	0360	A	Atlantic Ocean	0203	0204
		0976	1046	1359		0580 0670	0725	0732
		1525	1526			0910 0969	1096	1423
614	Victoria			1625	AN	Atlantic, N.	0427	0713
615	New S. Wales	0360	0542	0961		0790 0791	1059	1341
		1299				1379 1489	1517	1612
616	Queensland	0542	0696	1074		1663 1664	1665	1810
		1299	1445	1868	ANW	Atlantic, N.W.	0224	0238
		1908	1909	1928		0395 0591	0790	0986
617	Tasmania		1380	1625		1354 1513	1514	1576
618	Macquarie I.		1380		ANW.01	Baffin B.		1448
	Norfolk I.		1380		ANW.02	Davis Strait	1448	1517
620	New Guinea Trust Territory		0304		ANW.03	Hudson B.	1448	1517
622	Bismarck Archipelago		1380		ANW.04	G.of St. Lawrence	0393	
623	Bougainville I.		1380			0394 0509	0972	to
	Solomon Is.(Austr.)	0853	1380			0975 0985	1136	1366
624	Papua		1380	1887		1448 1517	1532	1627
630	<u>New Zealand</u>	0090	0209	0273	ANW.05	G.of Maine		1416
		0772	0773	0833	ANW.06	Chesapeake B.	0260	0280
		1005	1031	1184		0281 1085	1427	
		1821			ANE	Atlantic, N.E.	0030	0127
632	Cook Is.			1286		0927 1320	1354	
641	Fr. Oceania			0067	ANE.02	Barents Sea	0088	0133
660	<u>Hawaii</u>	0162	0906	1336		0810 1125	1870	
673	Caroline Is.			1820	ANE.04	North Sea	0113	0121
674	Marshall Is.		0391	0425		0326 0367	0369	0588
700	USSR	0003	0091	0482		0814 0821	1033	1054
		0805	0817	0908		1301 1320	1431	1537
		0923	0936	0939		1629 1700	1791	1879
		1032	1120	1158	ANE.05	Baltic Sea	0018	0019
		1189	1190	1253		0588 0844	1033	1238
		1276	1331	1347		1879		
		1468	1469	1553	ANE.06	G.of Bothnia	1238	1481
		1631	1685	1844				
		1892	1927	1865				

ANE.07	G.of Finland			1238	ISW.01	Red Sea	0511	1609
ANE.08	English Channel	0030	0044	0366	ISW.03	Persian G.	0754	1609
	1903				ISW.05	Arabian Sea	0818	0870
ANE.09	Irish Sea		0507	1519	ISE.06	B.of Bengal	0078	0572
AS	<u>Atlantic, S.</u>			0033	ISEW	Indopacific, Central		0028
ASW	Atlantic, S.W.	0214	0222	0284		0162	0163	0867
	0285					0909	1216	1361
ASW.01	G. of Mexico	0198	0222	0283		1655		
	0401	0421	0453	0529	ISEW.02	S.China Sea	0291	0999
	0530	0531	1528	1529	ISEW.04	E.China Sea		0565
	1880				ISEW.05	Yellow Sea		0041
ASW.02	Caribbean Sea	0185	1272	1936	ISEW.06	Inland Sea of Japan		1836
ASE	Atlantic, S.E.			0952		1850		
ASE.01	Bay of Biscay	0044	0703	1098	ISEW.18	Coral Sea	1358	1361
ASE.02	Mediterranean Sea		0051	0178	ISE	Pacific, S.E.	0301	0741
	0179	0279	0415	0510		0861	0886	1167
	0538	0769	1100					
ASE.05	Mediterranean Sea, Eastern		0039		P	POLAR SEAS	0084	1680
	0430	0431	0622	0768				
	1180				PN	<u>Arctic Ocean</u>	0202	0343
ASE.09	Sea of Marmara		1616	1864		0348	0390	0613
ASE.10	Black Sea	0021		0026		1161	1162	1423
	0069	0438	0648	0778		1896		1431
	1016	1398	1633	1706	PN.01	N.Polar Basin	0514	0515
	1864					1382		
ASE.11	Sea of Azov	0377	0859	0866	PS	Southern Ocean	0074	0299
	1334	1470	1723			0359	0450	0710
						0839	0945	1109
I	INDOPACIFIC OCEAN		0376	0391	PSEW	S. Polar Seas	0095	0131
	0416	0460	0604	0670		0166	0450	0451
	0683	0688	0783	0856				1004
	0897	1087	1226	1228	L	INLAND SEAS AND INTERTERRITORIAL		
	1266	1304	1352	1388		LAKE SYSTEMS		
	1466	1926						
IN	Pacific, N.	0020	0106	0132	L.11	<u>E.African Lakes</u>	0528	0553
	0233	0244	0637	0718		0576	0577	0596
	0737	0796	1009	1131		0638	0677	0714
	1167	1586	1587	1588		1060	1449	1595
	1607	1765	1910			1656	1713	1714
IN.01	Japan Sea		1080	1081	L.21	<u>American Great Lakes</u>		0217
IN.02	Sea of Okhotsk		1131	1387		0363	0489	0892
IN.03	Bering Sea	0172	0735	0779		1914		1505
	0871	1790			L.31	<u>L.Liticaca</u>		0878
IS	<u>Tropical Indopacific</u>		0742	1655	L.72	Caspian Sea	0377	0923
ISW	Indian Ocean	0048	0077	0205		0928	0939	1710
	1121	1122	1412	1494				
	1495	1497	1609	1655				



Taxonomic Index, Supplement 1  
for references 570001 to 571944

<b>1,00 FISHES. GEN.</b>	0039	0040	0047	<b>1,11 Torpedo</b>			1300
0051	0056	0057	0072				
0073	0092	0094	0095	<b>1,12 Hydrolagus</b>			0637
0114	0150	0196	0197				
0207	0208	0214	0220	<b>1,17 Actipenser</b>	0377	0928	1197
0312	0318	0364	0383		1557	1852	
0385	0392	0401	0402	<b>ACIPENSERIDAE</b>		1120	1373
0435	0444	0461	0487	<b>Huso</b>			0928
0543	0561	0567	0612				
0647	0654	0676	0684	<b>1,21 Alepocephalus</b>			0432
0687	0698	0741	0877	<b>Alosa</b>			1728
0886	0904	0912	0913	<b>Caspialosa</b>			1706
0919	0924	0948	0981	<b>Cetengraulis</b>			0028
0982	0983	0992	1030	<b>Clupea harengus</b>		0030	0121
1063	1064	1080	1081		0127	0153	0169
1137	1153	1207	1237		0184	0218	0248
1248	1251	1262	1302		0369	0393	0394
1310	1325	1341	1353		0508	0595	0669
1454	1535	1536	1566		0985	0986	1270
1690	1727	1733	1736		1482	1506	1532
1740	1750	1780	1817		1627	1628	1668
1827	1836	1832			1767	1862	1873
				<b>Clupea pallasii</b>		0756	0937
<b>1,02 Lampetra</b>			1845		1228	1824	1825
<b>Petromyzon</b>	0042	0893		<b>Clupea sprattus</b>		0021	0381
					1017		
<b>1,03 Myxine</b>			0430	<b>Engraulis encrasicolus</b>			0025
					1398		
<b>1,07 Carcharodon</b>			1416	<b>Engraulis japonica</b>	0058		0059
<b>Cetorhinus</b>			1806		0060	1834	
<b>Isurus</b>			1498	<b>Engraulis mordax</b>			1855
<b>Rhincodon</b>	1324	1528		<b>Engraulis ringens</b>			1401
				<b>Ethmalosa</b>			1757
<b>1,08 Galeorhinus</b>			1167	<b>Etrumeus</b>			0058
<b>Hypoprion</b>			1529	<b>Hilsa</b>			1265
<b>Mustelus</b>	1391	1394	1499	<b>Jenkinsia</b>			1528
<b>Scoliodon</b>			0357	<b>Megalops</b>			1355
<b>Scyliorhinus</b>	0101	0303		<b>Opisthonema</b>			1528
<b>Scylliogaleus</b>		1499		<b>Sardina</b>	0021	0035	0036
					0358	0366	0433
<b>1,09 Etmopterus</b>	0575	0809			0501	0712	0959
<b>Euprotomiscus</b>		1226			1190	1404	1163
<b>Oxynotus</b>		0101		<b>Sardinella</b>		0433	1528
<b>SQUALIFORMES</b>		0129		<b>Sardinops melanosticta</b>			0058
<b>Squalus</b>	0637	0737	1375		1833		
1890			1391	<b>Sardinops ocellata</b>		0234	0387
<b>Squatina</b>			0102		0388	1058	1177
<b>1,10 Dasyatris</b>			1394	<b>1,22 Channa</b>			1212
<b>Myliobatis</b>			0102	<b>Chanos</b>			1593
<b>Neotrigonias</b>			1942				
<b>Raja</b>	1017	1159		<b>1,23 Argentina</b>		0101	0918
<b>Rhinobatos</b>		0101		<b>Coregonus</b>		0232	0362
					0847	1003	1467
							1606

1,23	<i>Cristivomer</i>	0142	0217	0362	1,28	<i>Arapaima</i>		1110
	0489	0649	1577		1,29	<i>Anotopterus</i>		1765
	<i>Leucichthys</i>			1505	1,32	<i>Bathypterois</i>		0432
	<i>Mallotus</i>			1162		<i>Chlorophthalmus</i>		0101
	<i>Oncorhynchus</i> , gen.	0020		0688		<i>Harpadon</i>		1860
	1352	1586	1587	1588		<i>Myctophum</i>		0591
	<i>Oncorhynchus gorbusha</i>			0306	1,36	<i>Gnathonemus</i>		1583
	0317	0753	1682			<i>Gymnarchus</i>		1583
	<i>Oncorhynchus keta</i>	0758	1130		1,38	<i>Alestes</i>		0371
	<i>Oncorhynchus kisutch</i>			0015		<i>Anoptichthys</i>		0826
	0758	1119	1321	1323		<i>Astyanax</i>		0826
	<i>Oncorhynchus nerka</i>	0009	0143		1,40	<i>Abramis</i>	0805	0928
	0227	1321	1330	1632		<i>Acanthobrama</i>		1830
	1682	1719	1935			<i>Acheilognathus</i>	0729	0730
	<i>Oncorhynchus tschawytsha</i>	0317				<i>Algansea</i>		0027
	0333	0471	0667	0668		<i>Aristichthys</i>		0782
	1026	1106	1119	1351.		<i>Barbus</i>	0869 1411 1539	1540
	1502					1830		
	<i>Oncorhynchus sp.</i>	0133	0482			<i>Blicca</i>		0454
	1132	1804	1854			<i>Brachydanio</i>		0785
	<i>Osmerus</i>		0600	1918		<i>Campostoma</i>		0704
	<i>Plecoglossus</i>			0957		<i>Capoetobrama</i>		1049
	<i>Salmo clarkii</i>	0144	0332	1720		<i>Carassius</i>	0027 0278	0493
	<i>Salmo gairdnerii</i>	0007	0042				0916 0917 1211 1212	
	0141	0144	0270	0271			1293 1391 1411	1763
	0331	0667	0692	0750		<i>Catostomus</i>		1606
	0751	0899	0990	1183		<i>Chalcalburnus</i>		0928
	1188	1210	1243	1352		<i>Chrosomus</i>	1441	1919
	1502	1503	1606	1607		<i>Cobitis</i>		0908
	1720	1876	1877	1925		<i>Ctenopharyngodon</i>		0782
	<i>Salmo salar</i>	0019	0147	0148		<i>Cyprinella</i>		0590
	0180	0255	0258	0517		<i>Cyprinus</i>	0027 0170	0171
	0844	1059	1105	1297			0253 0578 0745	0752
	1501	1574	1635	1650			0780 0803 0807	0876
	1730	1770	1771	1858			0923 0928 0936	0987
	<i>Salmo trutta</i>	0086	0120	0247			1002 1108 1145	1146
	0642	0689	0844	1188			1165 1212 1391	1393
	1297	1383	1384	1385			1418 1420 1432	1591
	1428	1442	1477	1574			1602 1606 1829	1839
	<i>Salmo sp.</i>	0027	0593	1212		CYPRINIDAE	0003	0716
	1256	1257	1328			<i>Danio</i>	0277	1473
	SALMONIDAE	0601	0845	0846		<i>Erimyzon</i>		1918
	1478	1504	1510	1645		<i>Evarra</i>		0037
	1817	1932				<i>Hybognathus</i>		1441
	<i>Salvelinus alpinus</i>			0613		<i>Hyborhynchus</i>		1891
	<i>Salvelinus fontinalis</i>			0217		<i>Hypophthalmichthys</i>		0782
	0629	1183	1258	1445		<i>Leuciscus</i>	1411	1539
	1500	1501	1876			<i>Minytrema</i>		1918
	<i>Salvelinus sp.</i>			0027		<i>Misgurnus</i>		1212
	<i>Spirinchus</i>			0823		<i>Moxostoma</i>		1356
	<i>Thymallus</i>			0181		<i>Noconis</i>		1919
1,24	<i>Dallia</i>			1162				
	ESOCIDAE			0715				
	<i>Esox</i>	0018	0116	0715	0868			
		1003	1091	1155	1769			

1,40	<i>Notemigonus</i>			1918	1,48	<i>Theragra</i>			0800
	<i>Notropis</i>	0027	0192	0590					
		1918	1919		1,50	<i>Eucalia</i>			1919
	<i>Pantosteus</i>			1441		<i>Gasterosteus</i>	0181	0757	1411
	<i>Pfrittle</i>			1441					
	<i>Pimephales</i>	1763	1891	1919	1,51	<i>Hippocampus</i>		0100	1416
	<i>Ptychocheilus</i>			0824		<i>Nerophis</i>			0100
	<i>Rhinichthys</i>			1919		<i>Syngnathus</i>			0102
	<i>Rhodeus</i>			1411					
	<i>Rutilus</i>	0308	0928	1126	1,54	<i>Lophotus</i>			1749
	<i>Semotilus</i>			0704					
	<i>Varicorhinus</i>		1540	1830	1,57	<i>Chologaster</i>			1762
	<i>Vimba</i>			0928		CYPRINODONTIDAE			1364
1,41	<i>Ameiurus</i>			0682		<i>Gambusia</i>			0762
	<i>Clarias</i>		0828	1830		<i>Lebistes</i>			1530
	<i>Ictalurus</i>	0302	0632	1084		POECILIIDAE			0003
		1606				<i>Xiphophorus</i>		0062	1693
	<i>Noturus</i>			1919	1,61	<i>Caristius</i>			1765
	<i>Parasilurus</i>		1211	1212					
	<i>Plotosus</i>			1212	1,62	<i>Capros</i>			0101
	SILURIDAE			0003					
	<i>Wallagonia</i>			0863	1,65	<i>Agonostomus</i>			0033
1,42	ANGUILLIFORMES			1143		<i>Aldrichetta</i>		1624	1625
1,43	<i>Anguilla anguilla</i>	0256		1033		<i>Chirostoma</i>			0027
		1079	1303			<i>Mugil</i>	0022	0032	0033
	<i>Anguilla japonica</i>		0753	1403			0486	0928	1340
	<i>Anguilla sp.</i>	0558	0559	0602			1416	1868	1407
		0841	1155	1212	1,67	<i>Ophicephalus</i>			1411
	<i>Echelus</i>			0102	1,70	<i>Algoa</i>			1782
	<i>Ophichthys</i>			0431		<i>Austrosparus</i>			1868
1,44	<i>Nemichthys</i>			0432		<i>Bolesoma</i>			1919
1,47	<i>Cololabis</i>			1561		<i>Brama</i>			1268
	<i>Cypsilurus</i>			0048		<i>Caranx</i>			1129
	<i>Strongylura</i>			0102		CICHLIDAE			1640
1,48	<i>Boreogadus</i>			1162		<i>Chrysophrys</i>		1391	1859
	<i>Eleginus</i>			0659		<i>Coris</i>		0101	1496
	<i>Gadus macrocephalus</i>			0637		<i>Coryphaena</i>			1391
	<i>Gadus merlangus</i>	0420		0605		<i>Ctenolabrus</i>			0504
		1194	1666	1668		<i>Cymatogaster</i>			0757
		1709		1708		<i>Dascillus</i>			0574
	<i>Gadus morhua</i>	0413	0518	1094		<i>Decapterus</i>	1129	1391	1528
		1275	1379	1532					1655
		1666	1668	1870		<i>Dicentrarchus</i>			0100
	<i>Gadus poutassou</i>			0705		<i>Etheostoma</i>	0761	0763	1796
	<i>Gadus sp.</i>	0504		0605		<i>Gomphosus</i>			1555
	<i>Lota</i>			0374		<i>Haplochromis</i>			0638
	<i>Melanogrammus</i>			1890		<i>Ichthyoscopus</i>			0696
	<i>Merluccius merluccius</i>			1666		<i>Julis</i>			1496
		1668	1671			LABRIDAE			1497
	<i>Pollachius</i>	0621	1125	1563		<i>Lateolabrax</i>			1602
		1668				<i>Lepomis</i>	0026	0042	0389
							1176	1763	1146
						<i>Luciooperca</i>		0928	1428



1,70	<i>Lutjanus</i>			1880	1,75	<i>Rastrelliger</i>		0077	1313
	<i>Micropogon</i>			0694		<i>Sarda</i>	0024	0052	1416
	<i>Micropterus</i>	0027	0097	0682		<i>Scomber scombrus</i>		0023	1903
		0884	0885	1146		<i>Scomber sp.</i>		1391	1393
	<i>Naucrates</i>			1416		<i>Scomberomorus commerson</i>			1154
	<i>Nippon</i>			1212		<i>Scomberomorus queenslandicus</i>			1154
	<i>Opistognathus</i>			0164		<i>Scomberomorus sp.</i>			1154
	<i>Oplegnathus</i>			0907		<i>Xiphias</i>	1055	1072	1739
	<i>Pagellus</i>		1300	1616					
	<i>Pagrosomus</i>			0780	1,76	<i>Anabas</i>			0586
	<i>Paratilapia</i>			1902		<i>Betta</i>			0004
	<i>Perca flavescens</i>	0223		1754		<i>Cubiceps</i>			0432
	<i>Perca fluviatilis</i>	0007		0018		<i>Stromateus</i>			0100
		1428				<i>Tetragonurus</i>			1605
	<i>Percina</i>		0761	0763	1,77	GOBIIDAE			1590
	<i>Plectroplites</i>			1542		<i>Gobius</i>		0080	0778
	<i>Pomoxis</i>			1146		<i>Neogobius</i>			1470
	<i>Pseudopriacanthus</i>			1416		<i>Pomatoschistus</i>			0080
	<i>Ptychochromis</i>			1902	1,78	<i>Cottus</i>		0635	1509
	<i>Roccus</i>	0389	0998	1036		<i>Hexagrammos</i>		1211	1212
		1803		1316		<i>Lepidotrigla</i>			1212
	<i>Sargus</i>			1300		<i>Myoxocephalus</i>		1161	1162
	<i>Sarpa</i>			0100		<i>Ophiodon</i>			0637
	SCARIDAE			1797		<i>Pterois</i>			1212
	<i>Seriola</i>	1119	1130	1463		<i>Scorpaenichthys</i>		1057	1246
	SERRANIDAE			0370		SCORPAENIDAE		1494	1495
	<i>Serranus</i>			1692		<i>Sebastes</i>	1400	1612	1613
	<i>Sparus</i>			1602		<i>Sebastodes</i>			0637
	<i>Taius</i>			0041	1,80	<i>Auxis</i>		1463	1571
	<i>Temnodon</i>			1648		<i>Euthynnus</i>		0964	1943
	<i>Tilapia</i>	0173	0274	0287		<i>Germo</i>	0662	0742	1122
		1029	1176	1593			1513	1654	1910
		1937		1656		<i>Katsuwonus</i>		0662	0707
	<i>Trachurus</i>		0387	1058			0849	0913	0964
		1177	1391	1398			1388	1466	1934
	<i>Upeneus</i>			0622		<i>Neothunnus</i>		0446	0707
1,71	<i>Anarhichas</i>		0088	1737			0722	0853	0964
	<i>Lembeichthys</i>			0999			1464	1572	1638
1,72	<i>Ammodytes</i>		0801	0890			1819	1820	1943
	<i>Brosmorphycis</i>			0118		<i>Parathunnus</i>		0879	1121
	<i>Hoplobrotula</i>			1212			1638		1152
1,73	<i>Callionymus</i>		0163	0432		THUNNIFORMES	0445	0555	0565
	<i>Siganus</i>			0100			0989	1055	1101
1,74	<i>Acanthurus</i>			0198			1696	1739	1917
	<i>Thyrsites</i>		0145	0360		<i>Thunnus thynnus</i>		0026	0648
	TRICHIURIDAE			1368			1076	1144	1271
	<i>Trichiurus</i>			0050			1629	1630	
1,75	<i>Acanthocybium</i>			0808		<i>Thunnus sp.</i>			1528
	<i>Gymnosarda</i>			1943	1,81	PLEURONECTIFORMES			1013
	<i>Istiophorus</i>	0421	0530	1655	1,82	<i>Psettodes</i>			1859
	<i>Makaira</i>	1055	1652	1653					
		1739		1655					

1,83	<i>Clidoderma</i>		1765
	<i>Gymnachirus</i>		0238
	<i>Hippoglossoides</i>		1366
	<i>Hippoglossus hippoglossus</i>		1366
	1890		
	<i>Hippoglossus stenolepis</i>		1926
	<i>Lepidopsetta</i>		1842
	<i>Microstomus</i>	0119	1194
	<i>Paralichthys</i>		1212
	<i>Platichthys</i>		1841
	<i>Pleuronectes platessa</i>		0814
	1133 1666		
	<i>Pleuronectes</i> sp.		0814
	<i>Pseudopleuronectes</i>	0171	1366
	<i>Scophthalmus</i>		1366
	<i>Solea</i>	1666	1668
	SOLEIDAE	1204 1205	1206

1,87 *Remora* 1554

1,89 *Monacanthus* 0907

1,92 *Sicyases* 1702 1703

1,95 *Raphidiopsis* 1312

1,99 FISHES, MISC. 0010 0031 0043  
0053 0054 0061 0065  
0068 0071 0081 0082  
0091 0103 0104 0105  
0115 0117 0120 0124  
0125 0134 0152 0174  
0193 0212 0213 0221  
0237 0239 0246 0249  
0250 0254 0263 0264  
0265 0267 0268 0296  
0298 0301 0309 0314  
0324 0327 0328 0329  
0335 0341 0361 0365  
0373 0379 0403 0405  
0408 0439 0449 0470  
0481 0492 0500 0502  
0503 0506 0507 0527  
0533 0542 0545 0550  
0556 0570 0576 0577  
0585 0614 0636 0638  
0641 0644 0655 0656  
0660 0663 0664 0672  
0681 0695 0711 0735  
0760 0765 0775 0783  
0784 0786 0791 0792  
0795 0796 0802 0812  
0821 0830 0843 0852  
0854 0858 0859 0861  
0864 0866 0873 0895

1,99 FISHES, MISC. (continued)

0903 0905 0922 0927  
0935 0936 0944 0954  
0960 0982 0989 1001  
1007 1018 1021 1025  
1047 1058 1068 1069  
1074 1083 1085 1092  
1093 1103 1118 1123  
1143 1156 1168 1178  
1184 1187 1189 1198  
1199 1200 1201 1225  
1231 1236 1249 1253  
1254 1255 1269 1276  
1277 1278 1291 1310  
1337 1345 1346 1363  
1372 1377 1389 1406  
1419 1421 1424 1426  
1431 1443 1455 1468  
1474 1475 1479 1480  
1492 1493 1514 1544  
1553 1564 1565 1592  
1599 1601 1604 1615  
1617 1618 1620 1621  
1623 1643 1662 1669  
1673 to 1679 1681  
1686 1689 1690 1697  
1714 1722 1724 1725  
1738 1743 1745 1746  
1775 1778 1795 1800  
1805 1828 1838 1844  
1848 1850 1863 1864  
1866 1875 1878 1879  
1881 1883 to 1887  
1889 1892 1893 1894  
1898 1900 1901 1905  
1907 1911 1914 1915  
1921 1922 1931 1939  
1940

2,00 CRUSTACEANS, GEN. 0008 0039

0040 0069 0072 0092  
0095 0146 0214 0215  
0312 0364 0401 0402  
0435 0461 0483 0487  
0495 0544 0561 0567  
0587 0588 0647 0695  
0741 0836 0904 0912  
0913 0914 0948 0979  
0982 0983 0997 1022  
1032 1043 1044 1064  
1080 1081 1134 1151  
1229 1248 1250 1251  
1262 1302 1310 1325  
1328 1341 1454 1535  
1545 1566 1690 1740  
1817

2,01	BRANCHIOPODA			1508	2,20	Gastrosacus			1560
						MYSIDAE			0610
2,02	Artemia		0306	0592		Mysidopsis			0186
	Chirocephalus			0759					
2,05	Bosmina			1314	2,23	Gnathostenetroides			0029
	Daphnia	0181	0547	0634		Idotea			1086
		1477	1487	1451		ISOPODA	0412		1104
	CLADOCERA					Jaera			0988
	Moina			0677		Limnoria			0566
	Simocephalus			0748		Mesidotea			0350
				0749		Storthyngura			0136
2,09	COPEPODA		0245	0412	2,24	Allorchestes			0772
				0878		Gammarus	1040		1220
						Hyale			0772
2,10	Acanthocyclops			0804		Marinogammarus			1220
	Arcatia			0251		Orchestia			0773
	Amphiascus			0083		Pontogammarus			1334
	Boeckella			0833	2,25	Lysiosquilla			0074
	Bradyidius			0529		Squilla			0797
	CALANIDAE		0319	0579	2,26	Euphausia			0856
	Calanopia			0185		Nyctiphanes			0360
	Calanus	0817	1073	1320	2,27	DECAPODA	0415		1531
	Clausidium			0767	2,28	Crangon			0372
	Clavella			1202		Hippolyte			0257
	Cyclops			0957		Leander			1610
	Diaptomus	0628		0957		Lysmata			0257
	Euchaeta			0529		Metapenaeus			1102
	Eurytemora			1003		NATANTIA	1179	1417	1881
	Halicyclops			0804			1909	1913	1930
	Lichomolgus			0623		Palaemonetes		0200	0201
	Metaboeckella			0833		Pandalus	0257	0637	1128
	Metridia			1301		Parapenaeus			1102
	Octopicola			0769		PENAEIDAE			1299
	Paracyclops			0804		Penaeus	0657	0775	1102
	Parundinella			0530			1867	1908	1808
	Peroderma			0432		Sicyonia			1039
	Pontella			0531		Teredicola			1794
	Stephos			0529	2,29	Aegla			0323
	Tigriopus			1307		Aniculus			1087
	Tisbe	0083		0768		ASTACIDAE	1377	1698	1817
2,12	CIRRIPIEDIA			1579		Astacus			0562
2,13	Balanus	0084	0139	0159		Brachynotus		0538	1172
		0348		0337		Callianassa			0767
	Branta			1490		Callinectes	0260	0352	1867
	Chthamalus			0139		Cambarellus	0521	0522	0526
	Elminius	0138	0139	1172		Cambarus			0525
	Lepas			1172		Cancer		0233	0540
	Polliceps			0139					
2,17	MALACOSTRACA			0599					



2,29	<i>Cervimunida</i>			0400	3,09	<i>Eupleura</i>		0037	0678
	<i>Emerita</i>			0645		<i>Melongena</i>			0658
	<i>Homarus</i>	1729		1788		<i>Molpadicola</i>			0646
	<i>Neptunus</i>			1867		<i>Neptunea</i>			0504
	<i>Orconectes</i>			1247		<i>Urosalpinx</i>	0037	0674	0678
	<i>Pachygrapsus</i>	0645	1172	1348					
	1349					1923			
	<i>Pagurus</i>			1639	3,10	<i>Littorina</i>			0159
	<i>Palinurus</i>			1867		<i>Pomatiopsis</i>			0457
	<i>Paralithodes</i>	0944	1396	1881		<i>Potamopyrgus</i>			0770
	<i>Pinnotheres</i>			1174					
	<i>Pisa</i>		1716	1717	3,11	<i>Scyllaea</i>			1843
	<i>Planes</i>			1172					
	<i>Portunus</i>		0176	1928	3,13	<i>Blomphalaria</i>			0346
	<i>Procambarus</i>			0731		<i>Bulinus</i>	0346		1815
	REPTANTIA	0349	0484	0631		<i>Limnaea</i>			0346
	<i>Sarmatium</i>			0840					
	<i>Sesarma</i>			0840	3,14	CERIONIDAE			0305
	<i>Uca</i>	0098	0520	1541		<i>Spartina</i>		0275	0566
	1639								
					3,15	PELECYPODA	0607	1233	1234
2,99	CRUSTACEANS, MISC.	0011	0031		3,16	<i>Crassostrea</i>	0523	0524	0541
	0134	0152	0173	0213			0658	0717	1019
	0264	0265	0298	0309			1230	1456	1799
	0500	0516	0544	0611		<i>Gryphaea</i>	0344	0473	0952
	0664	0876	1068	1069			1075	1456	1759
	1118	1231	1255	1277		<i>Hyriopsis</i>			0748
	1278	1279	1345	1458					
	1479	1480	1620	1621		MYTILIDAE			0961
	1738	1857	1863	1869		<i>Mytilus</i>	0473	0709	1543
	1886	1892	1893	1898		<i>Ostrea</i>	0038	0300	0473
	1900	1901	1905	1139			0920	0921	1019
							1111	1399	1456
							1603	1758	1759
						<i>Pecten</i>			1667
						<i>Pinctada</i>	0650	0874	0925
							1286	1742	1752
						<i>Pinna</i>			0473
						<i>Septifer</i>			1462
3,00	MOLLUSCS, GEN.	0008	0039	0040	3,17	<i>Cardium</i>			0519
	0069	0072	0092	0095		<i>Mactra</i>			0661
	0146	0182	0214	0215		<i>Martesia</i>			1240
	0312	0364	0401	0402		<i>Mya</i>	0426	0447	1056
	0435	0458	0483	0487		<i>Scrobicularia</i>			0632
	0495	0561	0567	0587		<i>Tapes</i>		0519	0777
	0588	0647	0695	0741		<i>Teredo</i>			0938
	0886	0904	0912	0913		<i>Venus</i>	0473	1545	1768
	0914	0948	0979	0982					1764
	0983	0997	1022	1032					
	1043	1044	1064	1070					
	1080	1081	1134	1229					
	1248	1250	1251	1262					
	1302	1310	1325	1328					
	1341	1454	1535	1545					
	1690	1740	1814	1817					
3,05	GASTROPODA		0416	1244	3,21	DIBRANCHIA		0076	1234
						<i>Octopus</i>	0187	0769	1568
3,07	<i>Patella</i>	0045	0181	0994		<i>Ommastrephes</i>		0889	1192

3,22 <i>Neopilina</i>			1835	5,09 <i>Xenopus</i>		0266	1695
3,99 MOLLUSCS, MISC.	0011	0031	0134	5,10 <i>Scaphiopus</i>		1453	1751
	0152	0174	0213				
	0265	0304	0309	5,11 <i>Acris</i>			0620
	0516	0545	0664	<i>Bufo</i>	0096	0252	1552
	0895	1068	1069	<i>Crinia</i>			1046
	1118	1231	1255	<i>Hyla</i>			0620
	1278	1345	1458	<i>Phyllobates</i>			0459
	1480	1566	1620	<i>Prostherapis</i>			0459
	1738	1857	1863	<i>Pseudacris</i>		0096	0620
	1892	1893	1898				
	1901	1905	1939	5,12 <i>Rana</i>	0455	0665	1695
					1853		
4,00 MAMMALS, GEN.			0150	5,29 AMPHIBIANS, MISC.			1175
4,05 <i>Enhydra</i>			1789				
4,06 <i>Callorhinus</i>			1790	5,30 REPTILES, GEN.		0150	0235
<i>Cystophora</i>			1315		0385	0458	1028
<i>Halichoerus</i>			1136				
<i>Phoca</i>	0798	1136	1315	5,31 <i>Chelydra</i>		0155	0339
PINNIPEDIA			0625	<i>Clemmys</i>		1142	1319
				<i>Dermochelys</i>		0013	1791
4,16 <i>Castor</i>			0325	<i>Pseudemys</i>			0021
<i>Ondatra</i>			0325				
4,21 CETACEA	0068	0299	0860	5,34 <i>Anniella</i>			0618
	1382	1402	1425	<i>Cosymbotus</i>			0210
	1651		1448	<i>Dasia</i>			0210
				<i>Gehyra</i>			0210
4,22 <i>Globicephala</i>		0137	1448	<i>Hemidactylus</i>			0210
<i>Mesoplodon</i>			0838	<i>Varanus</i>			1811
<i>Physeter</i>			0699				
<i>Stenella</i>			1528	5,35 HYDROPHIDAE			1491
				<i>Thamnophis</i>			1721
4,23 <i>Balaenoptera musculus</i>			0978				
<i>Balaenoptera physalus</i>			0450	5,50 BIRDS, GEN.			0150
	0451	0862	0978				
<i>Megaptera</i>		0209	0288	5,58 <i>Megadyptes</i>			1338
	0290	0359	0839				
MYSTACOCETI			1215	5,61 <i>Puffinus</i>			1398
4,97 MAMMALS, AQUATIC		0149	0385				
	0598	1088		5,62 PELECANIDAE			0338
				SULIDAE			1899
5,00 AMPHIBIANS, GEN.		0150	0385				
	0458	1028		5,63 CICONIIFORMES			0819
5,05 <i>Ambystoma</i>			0154	5,64 <i>Lophodytes</i>			1777
<i>Plethodon</i>		0157	0456	<i>Mergus</i>			1777
	1437		0723				
<i>Typhlomolge</i>			0609	5,79 <i>Corvus</i>			0740
5,07 SALIENTIA			0189	5,87 BIRDS, AQUATIC		0189	0598
					0625	1088	1097
					1723		1336

5,96	Ascidia			0623	6,26	Erpocotyle			1485
	Ciona	0087		1224		Gyrodactylus	0017		1051
	CLAVELINIDAE			0926		Staphylorchis			0357
	Phallusia			1224					
	POLYCLINIDAE			0926	6,27	Crepidostomum			0464
	Pyrosoma			0856		DIGENA			1520
6,01	Trypanosoma			0753		Hemiurus			0251
						Heterophyes			0957
6,03	Janickina			0673		Metagonimus			0957
	RHIZOPODA	0406	1387	1405		Opisthorchis			0957
		1415				Paragonimus			0957
						Schistosoma			0347
6,09	CILIATA			1147	6,28	Diphyllbothrium			0957
6,11	Ichthyophthirius			0017	6,30	CESTODES			1521
	Tetrahymena			1484		Eutetrarhynchus			1521
	Trichodina			0017		Ligula			1411
6,13	PORIFERA	0613	0615	1817		Schistocephalus			1411
						Triaenophorus			0868
6,15	Axinella			0993	6,31	NEMERTEA	0246		0774
	SPONGIIDAE			1551					
6,16	COELENTERATA	0110	0423	1444	6,33	Raphidascaris			0868
6,17	Branchiocerianthus			0191	6,35	ACANTHOCEPHALA			0606
	CAMPANULARIIDAE			1305		Neoechinorhynchus			0464
	Cladonema			1169		Polymorphus			0325
	Halammohydra			1578	6,37	Asplachna			0633
	Hydra			1024		ROTATORIA	0596	1195	1380
	HYDROZOA	0929		1141					
	Tetraplatia			1322	6,42	Hippadenella			1365
	Velella			1172					
6,18	Aurellia			1701	6,45	CHAETOGNATHA	0561		0718
	Cassiopea			1843		Sagitta	0128		0673
	Paragorgia			0202	6,46	ANNELIDA	0511		0512
6,19	Condilactis			1843	6,48	POLYCHAETA			1519
6,21	Ocyropsis			0291	6,49	Nereis			0377
	Pleurobrachia			0291		POLYCHAETA ERRANTIA			0376
6,22	Beroë			0291		Trypanosyllis			0463
6,24	Dugesia			1649	6,50	Mercierella			1172
	Polycelis			0820		Owenia			0378
	TURBELLARIA			1060		POLYCHAETA SEDENTERIA			0683
6,25	TREMATODES			1850		Polydora	1230		1309
						Rhodine			0510
6,26	Bunocotyle			1706	6,52	Aspidosiphon			1773
	Dactylogyrus			0869		Dendrostomum			0468
	Dictyocotyle			1017		Gephyrea			1774
						Phascolosoma	0608		1773



6,52 <i>Urechis</i>			0901	6,97 INVERTEBRATES, AQUATIC (contd.)				
					0401	0402	0435	0461
6,56 <i>Limulus</i>			0262		0483	0487	0495	0516
					0561	0567	0587	0588
6,62 ACARINA			1037		0647	0695	0741	0886
<i>Wandesia</i>			0962		0904	0912	to	0915
					0932	0939	0941	0942
6,65 <i>Scolioplanes</i>			0159		0948	0979	0982	0983
					0997	1022	1032	1043
6,66 INSECTA	0422	0585	1273	1515	1044	1064	1134	1229
					1248	1250	1251	1253
6,70 DERMAPTERA			0726		1262	1302	1310	1325
					1328	1341	1454	1458
6,76 <i>Dicercomyzon</i>			0883		1535	1545	1566	1690
<i>Ephemerella</i>			1041		1738	1740		
6,77 <i>Calopteryx</i>			1707	7,00 ALGAE, GEN.	0002	0016	0075	
<i>Chorismagrion</i>			0548		0079	0123	0160	0175
<i>Lestoidea</i>			0548		0199	0214	0272	0312
<i>Synlestes</i>			0548		0364	0391	0402	0443
					0452	0480	0487	0509
6,82 <i>Limnephilus</i>			0675		0535	0567	0588	0643
TRICHOPTERA	0813	0881	0882		0647	0685	0741	0743
					0891	0904	0906	0912
6,84 COLEOPTERA		0651	0831		0913	0932	0941	0942
DYTISCIDAE			0651		0948	0982	0983	1043
<i>Hydrophilus</i>			1622		1044	1061	1062	1064
<i>Rhantus</i>			0569		1065	1208	1266	1295
					1296	1302	1310	1341
6,87 CHIRONOMIDAE	0552	0553	0567		1370	1386	1414	1454
CULICIDAE			1802		1535	1538	1566	1596
<i>Culicoides</i>			0093		1690			
DIPTERA			1713					
6,89 ECHINODERMATA	0224	1636	1817	7,01 CHLOROPHYCEAE		0666	1595	
6,91 <i>Evasterias</i>			0294	7,03 <i>Chlamydomonas</i>				0995
				<i>Dunaliella</i>				0963
6,92 <i>Amphiura</i>			0279	7,06 <i>Chlorella</i>	0126	0582	0583	
					0686	1112	1113	1516
6,93 <i>Arbacia</i>			0108		1619			
<i>Dendraster</i>			0532	<i>Scenedesmus</i>				1413
<i>Echinarachnius</i>			1191	7,08 <i>Enteromorpha</i>				0776
ECHINOIDEA	0488	1000	1117	<i>Stichococcus</i>				0583
1135	1166			<i>Ulva</i>	0776	1439	1440	
<i>Meoma</i>			1045	7,11 <i>Chaetomorpha</i>				1185
<i>Paracentrotus</i>			1339	7,32 COCCOLITHOPHORIDACEAE				0568
<i>Rhynorbrissus</i>			0330	<i>Coccolithus</i>				0108
<i>Sphaerechinus</i>			1052	<i>Crystallolithus</i>				0568
<i>Strongylocentrotus</i>	0168	0532		7,41 BACILLARIOPHYCEAE	0292	0537		
6,97 INVERTEBRATES, AQUATIC			0008		0581	0909	1073	1196
0012	0039	0040	0069		1222	1372	1596	
0072	0095	0146	0214					
0215	0298	0312	0364					

7,42 <i>Biddulphia</i>			1700	7,99 ALGAE, MISC.	0162	0228	0273
<i>Melosira</i>	0910		1597		0404	0424	0766
<i>Rhizosolenia</i>			1357		0933	0934	1196
					1436	1447	1454
7,43 <i>Asterionella</i>	1596	1597	1598		1600	1608	1619
<i>Fragilaria</i>		1597	1598		1816		1784
<i>Nitzschia</i> (see <i>Phaeodactylum</i> )							
			1413	8,01 BACTERIA	0182	0313	0685
<i>Tabellaria</i>			0902		0880	1013	1042
					1253	1272	1533
7,63 <i>Exuviella</i>			0108		1805	1816	1827
				<i>Bacterium</i>			1634
7,65 DINOFLAGELLATA	0085	1147		<i>Corynebacterium</i>			1801
1346 1476				<i>Escherichia</i>			0407
				<i>Pseudomonas</i>			1826
7,66 <i>Gymnodinioides</i>			1639	<i>Vibrio</i>		0750	0751
<i>Gymnodinium</i>	0001	0079	1534				
				8,33 <i>Dermocystidium</i>		0038	0717
7,69 <i>Chattonella</i>			0738				
				8,52 <i>Torulopsis</i>		0062	1311
7,70 <i>Trachelomonas</i>			1289				
				8,70 <i>Collema</i>			0708
7,71 PHAEOPHYCEAE			1005				
				8,99 FUNGI, MISC.		1066	1816
7,77 <i>Laminaria</i>	0776	1748					
				9,00 EMBRYOPHYTA, GEN.		0016	1827
7,80 <i>Cystoseira</i>			1173				
<i>Fucus</i>			1173	9,43 <i>Elodea</i>		0375	1793
<i>Halidrys</i>			1173				
<i>Himanthalia</i>	0837	1173		9,44 <i>Eichhornia</i>		0410	1027
<i>Sargassum</i>		0776					
				9,75 <i>Myriophyllum</i>			1754
7,81 RHODOPHYCEAE	0449	1826					
				9,91 <i>Lobelia</i>			1124
7,82 <i>Conchocelia</i>	1603	1823					
<i>Porphyra</i>	1603	1823		9,97 HIGHER PLANTS	0175	0199	0509
					0766	0851	0891
7,85 <i>Rhodoglossum</i>		1642			1378	1546	1241
7,86 <i>Grateloupia</i>		0776					
<i>Lithothamnion</i>		1846					
7,87 <i>Chondrus</i>		0776					
<i>Gracilaria</i>	1409	1547					
<i>Gracilariopsis</i>		1408					
7,88 <i>Rhodymenia</i>		0776					
7,91 MYXOPHYCEAE		1450					
7,95 <i>Nostoc</i>		0708					
7,96 <i>Mastigocladus</i>		1712					





Subject Index, Supplement 1  
for references 570001 to 571944

1. GENERAL (OCEANOGRAPHY, LIMNOLOGY  
AND FISHERIES)

1.1 <u>Expeditions</u>	0213	0466	0735
0886	1004	1260	1894
1915			
1.2 <u>Navigation</u>	0680	0943	0956
1115	1285	1452	1741
1.3 <u>Institutes and organizations</u>			
0063	0065	0090	0104
0165	0197	0249	0250
0295	0314	0324	0327
0328	0329	0353	to
0356	0361	0379	0396
0398	0418	0419	0428
0497	0500	0503	0534
0566	0567	0625	0647
0653	0656	0724	0775
0783	0784	0789	0790
0791	0796	0858	0896
0919	0945	1031	1058
1083	1098	1217	1269
1332	1347	1442	1565
1599	1656	to	1662
1669	1675	1676	1708
1724	1725	1739	1767
1809	1828	1840	1844
1857	1866	1883	1884
1886	1897	1900	
1.4 <u>General phenomena</u>	0072	0162	
0563	0856	1077	1335
1459			
1.5 <u>General apparatus</u>	0755	0799	
0965	0966	1090	1260
1732			
1.6 <u>General books</u>	0150	0158	
0199	0206	0219	0235
0315	0351	0382	0385
0417	0425	0429	0436
0437	0498	0509	0546
0588	0619	0781	0788
0888	0894	0953	0976
0981	1026	1099	1221

1.6 (continued)	1227	1276	1335
	1375	1377	1419
	1477	1479	1488
	1556		
	1827		

2. PHYSICAL OCEANOGRAPHY AND  
LIMNOLOGY

2.1 <u>Practical aspects</u>	0034	0067
0211	0225	0230
0240	0241	0242
0280	0281	0284
0467	0505	0624
0886	0947	1186
1251	1304	1358
1361	1381	1465
1526	1584	1710
		1920

2.2 General features of marine and  
inland water areas

2.3 <u>Submarine topography</u>	0049
0112	0113
0226	0343
0477	0478
0554	0604
0700	0710
0754	0779
1015	1034
1157	1164
1387	1405
1434	1461
1614	1646
1718	1756
1896	1906
	1912
	1936

2.4 Physics of sea and fresh waters

0276	0298
0806	0825
1427	1684
1856	1944

2.5 Chemistry of sea and fresh waters

0005	0044
0190	0259
0310	0336
0475	0477

2.5 (continued)	0589	0685	0743
0757	0760	0776	0787
0780	0834	0843	0867
0872	0895	0900	0984
1020	1050	1071	1082
1098	1140	1218	1252
1280	to	1284	1298
1331	1342	1343	1374
1429	1457	1518	1523
1631	1641	1662	1685
1694	1699	1731	1776
1779	1812	1888	1938

2.6 Structure, dynamics and circulation

		0078	0123
0151	0167	0178	0179
0203	0204	0205	0222
0234	0236	0283	0284
0285	0342	0384	0386
0397	0413	0427	0428
0438	0442	0474	0494
0513	0572	0594	0603
0630	0690	0702	0711
0719	0720	0724	0764
0810	0818	0829	0842
0870	0871	0897	0898
0913	0930	0949	0950
0951	0968	0969	0970
0973	0974	0975	0977
0979	1000	1035	1053
1067	1096	1109	1158
1160	1180	1287	1301
1306	1326	1333	1369
1390	1422	1423	1438
1486	1489	1517	1537
1548	1549	1550	1576
1582	1586	1588	1589
1609	1644	1651	1663
1664	1665	1688	1691
1744	1766	1822	1832
1837	1896		

2.7 Waves, tides and water level

0122	0177	0195	0229
0380	0440	0441	0465
0498	0499	0551	1010
1011	1012	1014	1054

2.7 (continued)	1114	1127	1138
	1148	1149	1150
	1259	1264	1294
	1318	1327	1433
	1511	1683	1785
	1787	1792	1904
2.8 <u>Ice</u>	0514	0515	0603
	1239	1397	1687
	1761	1810	1760

2.9 Coastal oceanography and

<u>limnology</u>	0014	0066	0180
	0194	0229	0363
	0408	0469	0472
	0528	0536	0554
	0616	0617	0693
	0703	0714	0736
	0760	0771	0787
	0855	0865	0880
	0931	0940	0970
	1043	1071	1182
	1208	1218	1261
	1288	1290	1298
	1326	1362	1383
	1435	1449	1454
	1527	1558	1562
	1573	1585	1594
	1637	1643	1662
	1685	1718	1726
	1861	1938	1776

3. PLANKTON

3.1 <u>General</u>	0039	0040	0214
	0312	0319	0364
	0904	0912	0913
	0963	0982	0983
	1080	1081	1251
	1451	1535	1566
3.2 <u>Zooplankton</u>	0021	to	0026
	0106	0128	0162
	0245	0291	0319
	0376	0423	0461
	0530	0531	0547
	0579	0592	0628
	0705	0718	0741
	0749	0817	0836
	0878	0886	0929
			1169

3.2 (continued)	1177	1195	1248
1262	1292	1301	1320
1322	1444	1536	1701
1740			
3.3 <u>Phytoplankton</u>		0001	0002
0075	0079	0085	0108
0292	0367	0409	0452
0482	0535	0537	0738
0909	1061	1062	1065
1073	1196	1222	1296
1341	1357	1414	1476
1538	1596	1597	1598
1700			
3.4 <u>Nannoplankton</u>		0568	0941
0942			
3.5 <u>Productivity</u>		0367	0368
0443	0741	1213	1386
1538			

#### 4. BENTHOS

4.1 <u>General</u>		0008	0069	0076
0109	0182	0215	0480	
0483	0587	0678	0695	
0906	0997	1022	1166	
1173	1229	1250	1251	
1295	1831	1843		
4.2 <u>Zoobenthos - systematics and</u>				
<u>development</u>		0029	0136	
0176	0186	0191	0200	
0201	0279	0286	0304	
0305	0330	0337	0345	
0349	0372	0406	0411	
0412	0510	0538	0548	
0553	0569	0596	0611	
0646	0657	0673	0677	
0679	0683	0709	0726	
0731	0767	0768	0769	
0772	0773	0774	0804	
0827	0831	0832	0833	
0881	0882	0883	0901	
0926	0961	0962	0993	
1037	1039	1041	1045	
1104	1128	1135	1141	
1142	1195	1224	1247	
1305	1365	1405	1456	

4.2 (continued)	1531	1578	1713
1773	1774	1781	1794
1802	1814	1815	1821
1835	1928	1942	

4.3 <u>Zoobenthos - distribution and</u>			
<u>ecology</u>	0011	0074	0083
0084	0138	0139	0146
0202	0224	0251	0286
0346	0347	0349	0401
0406	0415	0416	0457
0495	0510	0511	0512
0519	0520	0552	0569
0596	0623	0632	0651
0658	0679	0683	0731
0759	0768	0769	0770
0777	0804	0813	0827
0831	0832	0878	0913
0914	0926	0938	0957
0962	0979	0993	1017
1032	1040	1041	1044
1060	1089	1102	1104
1134	1147	1171	1172
1230	1233	1235	1240
1244	1273	1289	1292
1299	1305	1314	1334
1380	1415	1436	1490
1508	1515	1519	1521
1531	1545	1560	1579
1622	1636	1639	1649
1768	1773	1774	1846
1847	1867	1869	1928
1942			

4.4 <u>Zoobenthos - physiology and</u>			
<u>behaviour</u>	0037	0045	0087
0093	0098	0110	0159
0187	0201	0257	0260
0262	0293	0294	0323
0344	0345	0348	0350
0378	0422	0463	0468
0473	0484	0488	0504
0519	0521	to	0526
0532	0540	0544	0562
0599	0607	0608	0615
0631	0633	0645	0661
0674	0675	0739	0746
0747	0759	0777	0797



4.4 (continued)	0020	0840	0915
0988	0994	1000	1024
1039	1040	1052	1070
1086	1087	1111	1117
1135	1151	1191	1220
1234	1307	1309	1339
1348	1349	1458	1462
1484	1531	1541	1568
1569	1610	1639	1698
1707	1716	1717	1764
1807			
4.5 <u>Phytobenthos</u>	0016	0126	
0160	0182	0220	0272
0273	0275	0292	0313
0336	0375	0391	0407
0410	0424	0449	0509
0560	0581	0582	0583
0640	0643	0666	0686
0708	0743	0766	0776
0837	0851	0891	0902
0909	0910	0933	0934
0995	1005	1013	1027
1042	1043	1100	1111
1113	1124	1139	1142
1165	1241	1266	1311
1312	1370	1371	1378
1400	1409	1413	1436
1439	1440	1447	1450
1516	1524	1533	1534
1546	1547	1600	1603
1608	1619	1634	1642
1711	1712	1748	1784
1793	1816	1823	1826
1851			

## 5. FISHING

5.1 <u>Statistical returns</u>			0031
0068	0264	0265	0326
0545	0576	0672	0792
1068	1069	1178	1179
1184	1255	1277	1278
1379	1689		
5.2 <u>Vessels</u>	0267	0268	0335
0793	0794	0812	1048
1504	1940		

5.3 <u>Boat</u>	0010	0053	0054	0103
	0105	0365	0426	0458
	0502	0555	0556	0557
	0570	0663	0667	0733
	0780	0873	0903	0922
	1018	1232	1337	1421
	1513	1564	1604	1615
	1647	1667	1670	1697
	1778	1871	1874	1878
	1885	1889		

5.4 <u>Grounds and fishing surveys</u>				
	0043	0081	0134	0152
	0174	0263	0309	0341
	0414	0435	0445	0446
	0533	0576	0637	0644
	0681	0866	0944	0964
	1047	1092	1093	1118
	1168	1184	1187	1199
	1200	1231	1276	1279
	1426	1431	1455	1480
	1616	1617	1618	1620
	1621	1681	1708	1746
				1879
	1881	1887	1893	1898
	1901	1905	1908	1909
	1914	1916	1922	1930
	1931	1939		

5.5 <u>Fish technology</u>		0404	0481
	0486	0794	0830
	0852	0889	1345
	1396	1543	1742
5.6 <u>Economics of fishing</u>			0491
	1178	1179	1187
			1686

## 6. AQUATIC STOCKS

6.0 <u>General biology</u>		0003	0032
	0371	0374	0447
	0649	0715	0716
	0918	1029	1049
	1110	1125	1128
	1133	1155	1215
	1355	1368	1407
	1491	1505	1509
	1629	1648	1729
	1759	1762	1769
			1770

6.0 (continued)	1772	1829	1859
1918	1919	1937	
6.1 <u>Systematics</u>	0012	0021	to
0027	0100	0101	0102
0129	0153	0163	0189
0261	0317	0332	0370
0403	0431	0432	0459
0575	0580	0590	0591
0620	0638	0669	0696
0723	0762	0763	0809
0863	0908	0924	0937
0981	0990	0999	1036
1046	1153	1154	1210
1225	1228	1324	1356
1375	1467	1473	1494
to	1499	1529	1540
1555	1557	1577	1590
1613	1652	1653	1655
1721	1727	1734	1749
1751	1780	1782	1803
1811	1841	1842	1853
1864	1882	1902	
6.2 <u>Distribution and ecology</u>			
0013	0015	0027	0033
0050	0051	0077	0080
0088	0118	0149	0156
0157	0188	0198	0209
0238	0301	0320	0360
0383	0430	0431	0448
0455	0456	0542	0558
0559	0614	0618	0639
0694	0704	0737	0778
0786	0823	0838	0841
0859	0864	0879	0911
0920	0927	0928	0952
0981	0982	0986	0989
0992	1007	1016	1025
1028	1055	1072	1074
1085	1105	1137	1144
1152	1153	1175	1183
1197	1204	1205	1206
1226	1268	1300	1321
1328	1340	1353	1377
1383	1416	1424	1441
1448	1453	1460	1483
1499	1504	1529	1536

6.2 (continued)	1559	1574	1587
1588	1605	1611	1633
1635	1640	1714	1737
1765	1780	1791	1806
1819	1820	1836	1860
1870	1934	1935	1943
6.3 <u>Physiology and behaviour</u>	0007	0009	0035
	0041	0042	0047
	0057	0060	0062
	0096	0097	0121
	0141	to	0144
	0154	0155	0164
	to	0171	0173
	0183	0192	0196
	0208	0210	0220
	0227	0237	0247
	0255	0258	0266
	0278	0290	0293
	0302	0303	0308
	0318	0321	0322
	0373	0395	0444
	0471	0485	0492
	0518	0543	0574
	0601	0602	0605
	0612	0613	0635
	0659	0662	0665
	0676	0682	0684
	0688	0689	0692
	0698	0712	0721
	0729	0730	0737
	0757	0758	0761
	0803	0805	0814
	0826	0828	0835
	0848	0849	0850
	to	0863	0874
	0889	0893	0899
	0911	0915	0916
	0921	0923	0925
	0954	0959	0978
	0987	1003	1018
	1055	1057	1106
	1129	1131	1143
	1161	1162	1163
	1193	1207	1211
	1216	1246	1249

6.3 (continued)	1257	1270	1271
	1274	1291	1293
	1319	1336	1352
	1373	1388	1391
	1394	1396	1398
	1403	1404	1418
	1458	1463	1464
	1468	1470	1502
	1528	1530	1552
	1571	1572	1583
	1602	1606	1607
	1632	1638	1650
	1655	1692	1693
	1702	1703	1720
	1743	1752	1757
	1777	1789	1790
	1797	1807	1818
	1825	1839	1845
	1854	1873	1929

6.4 Parasites, diseases,  
abnormalities

	0017	0038
0091	0246	0325
0434	0464	0578
0606	0717	0750
0752	0753	0785
0850	0868	0869
0957	0990	1033
1136	1194	1198
1230	1253	1346
1411	1474	1485
1521	1706	1723
1801	1804	1805

6.5 Stock fluctuations and  
population studies

	0018
0030	0058
0127	0145
0288	0296
0359	0362
0381	0387
0394	0401
0433	0450
0501	0513
0622	0636
0667	0691
0707	0756
0821	0844

6.5 (continued)	0885	0886	0890
	0918	0959	0986
	1019	1121	1122
	1133	1156	1163
	1265	1301	1315
	1328	1338	1354
	1384	1385	1400
	1426	1432	1446
	1481	1503	1506
	1532	1561	1607
	1624	1626	1627
	1650	1666	1671
	1723	1758	1767
	1799	1819	1820
	1834	1855	1875
	1910		

6.6 Selection by fishing gear

1482

6.7 Marking

0114	0116	0119
0147	0148	0233
0270	0271	0289
0737	0765	0884
1094	1119	1382
1501	1668	1728
1868	1876	1877
1903	1929	

6.8 Fisheries for particular species

<u>or groups</u>	0018	0019	0020
	0028	0048	0052
	0145	0248	0282
	0400	0432	0445
	0482	0565	0595
	0728	0732	0742
	1056	1076	1101
	1128	1130	1167
	1330	1402	1407
	1551	1580	1630
	1759	1808	1830
	1870	1880	1913
	1917	1926	1928

6.9 Hatcheries, aquaria, culture

0081	0082	0086
0115	0117	0120
0212	0217	0232
0254	0255	0274
0287	0306	0331



6.9 (continued)	0377	0389	0405
0493	0506	0508	0517
0541	0593	0600	0629
0642	0660	0664	0736
0745	0766	0782	0802
0824	0840	0847	0875
0895	0905	0935	0936
0980	1001	1002	1075
1078	1084	1091	1093
1095	1103	1120	1145
1146	1165	1176	1183
1188	1189	1236	1243
1245	1258	1286	1297
1303	1310	1323	1351
1389	1399	1401	1406
1419	1420	1445	1468
1475	1478	1492	1493
1503	1510	1522	1539
1542	1543	1553	1563
1591	1592	1593	1623
1645	1673	1674	1677
1678	1689	1690	1714
1738	1754	1769	1788
1858	1875	1891	1921
1923	1925	1932	1933

7.2 (continued)	0795	0811	0815
0821	0822	0829	0946
0948	0955	0958	0960
0967	0996	1021	1116
1123	1156	1201	1208
1209	1214	1219	1254
1329	1331	1367	1381
1412	1430	1443	1487
1512	1515	1527	1562
1573	1581	1631	1672
1710	1722	1735	1736
1745	1750	1753	1755
1817	1838	1871	1872
1886	1892	1895	1917
1911	1924		

### 7.3 Special bibliographies

0140	0352	0479	0516
0610	0744	0816	0876
0948	1097	1237	1472
1544	1680	1696	

### 7.5 Terminology, notation,

<u>definitions</u>	0706	1170
1350		

7.6 <u>Legislation</u>	0216	0239
0243	1679	1682
1848		1798

### 7.7 Personal

Das, Basant Kumar	0124
Hamilton, J.E.	1088
Sverdrup, Harald Ulrik	0006
Thompson, Harold	0627

## 7. MISCELLANEOUS AND AUXILIARIES

### 7.1 Mathematical and statistical

<u>methods</u>	0094	0095	0107
0641	0671	0697	0853
0887	1023	1063	1066
1107	1174	1203	1263
1350	1376	1747	1750

### 7.2 General

0005	0055	0061
0064	0071	0089
0111	0130	0161
0193	0221	0269
0298	0307	0311
0334	0340	0353
0392	0399	0402
0439	0460	0470
0480	0495	0496
0527	0539	0550
0585	0597	0626
0699	0701	0734
		0760



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571370	Co	571371	
571384	Co	571385	
571556	Re	570727	
571574	Re	571770	
571635	Re	571770	
571650	Re	571770	
571708	Co	571709	
571771	Re	571770	
571940	Le	570335	
581063	Re	570476	
581887	<u>En</u>	570132	
581889	<u>En</u>	570133	

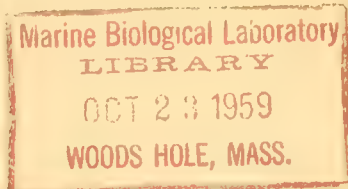




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Methods of extraction of the toxin from cultures of Gymnodinium veneficum are described. The action of the toxin on a variety of animals is described, and an attempt is made to devise an approximate assay technique using gobies as the test animals.

HR:hr

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FAO:glk

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Science, 125:397-8  
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An application of the modified Abramson and Evans criteria. The main criterion used was the nose-up-tail-down position of the fish at an angle of approximately 45 deg. or more.

FAO:hr

M

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Haliç'in pollusyon'u Hakkında (About the pollution of the Golden Horn)

Brief ill. description of causes.

SJH:sjh

M

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M

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<u>gairdnerii</u> Richardson) and perch ( <u>Perca</u>			
<u>fluviatilis</u> L.) with various concentra-			
tions of dissolved oxygen and carbon			
dioxide			

Report on aquarium experiments.

:glk

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<u>Z.Fisch.</u> , 5:295-302		<u>Hydrobiologia</u> , 11(1):40-58	
Beobachtungen über Veränderungen in der		Succession of marine fouling organisms on	
Bodenbesiedlung der Löcknitzseen		test panels immersed in deep water at la	
(Observations on changes in the		Jolla, California	
bottom populations of the Löcknitz			
Lakes)		Methods and results of an experiment in	
Description of the quantitative and		which artificial substrata, immersed for	
qualitative changes in the lakes between		12 weeks at a depth of 45 feet (ca 14 m)	
1933 and 1955.		below mean sea level, were periodically	
		examined in situ by aqualung diving, as	
		well as in the laboratory.	

FAO:tl

MF

FAO:wad

M

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J.R. Brett (1957)		<u>Vop.Ikhtiolog.</u> , 8:55-76	
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Some effects of kraft mill effluent on		plavnikov ryb (Characteristics and	
young Pacific salmon		functional topography of the fins of fish)	
Sockeye salmon underyearlings ( <u>Oncorhynchus nerka</u> ) were exposed to various		Centre of gravity determination, and	
concentrations of full-bleach kraft mill		calculation of an index of agility of fish	
effluent under experimental conditions		of various species and ages and	
simulating those anticipated in the		compositions within and between species;	
estuary of the Somass River at the head		proposal of four hydrodynamic zones of	
of Alberni Inlet, B.C.		the body of a fish and description of	
		representative species in terms and the	
		characteristics of these species.	

FAO:glk

F

FAO:glk

MF

Allen, E. Ross and W.T. Neill (1957) <u>Copeia</u> , (2):143-4 Another record of the Atlantic leather- back, <u>Dermochelys C. coriacea</u> , nesting on the Florida coast	570013	Allen, M.B., F.R. Whatley and D.I. Arnon (1957) <u>Plant Physiol.</u> , 32 (Suppl.):iii Conversion of light into chemical energy in photosynthetic phosphorylation (Abstract)  Paper presented at the meeting of the American Society of Plant Physiologists and the Physiological Section, Botanical Society of America, Stanford, California, August 25-29, 1957.	570016
HR	M	FAO	MF
Allen, F.H. and J. Grindley (1957) <u>Dock Harb. Author.</u> , 435:302-6 Radioactive tracers in the Thames estuary	570014	Allison, R. (1957) <u>Progr. Fish Cult.</u> , 19(2):58-63 Some new results in the treatment of ponds to control some external parasites of fish  Methods used and results obtained to control <u>Trichodina</u> , <u>Gyrodactylus</u> , <u>Ichthyophthirius</u> , using formalin and potassium permanganate.	570017
	MF	WAD:wad	F
Allen, G.H. (1957) <u>Dissert. Abstr.</u> , 16(10):1967 Migration, distribution and movement of Puget Sound silver salmon	570015	Alm, G. (1957) <u>Svensk FiskTidskr.</u> , 66(11):171-5 <u>Växlingarna i gädd- och abborrfångsten</u> <u>vid Osternsjökusten</u> (Fluctuations in the pike and perch catches on the Baltic coast)  Description of fluctuations from 1909- 1955 and discussions on the reasons for the fluctuations.	570018
	MF	FAO:tl	F



Alm, G. (1957) 570019  
Vandringsfisk.Medd., (4), 4 p.  
 Laxfångstens månadsfördelning inom olika  
 delar av östersjöområdet (The  
 distribution of monthly salmon catches  
 in different parts of the Baltic area)

Monthly catches size data and discussion  
 of the reasons for the catch distribution  
 in different areas.

TL:tl

M

Altan, H. (1957) 570022  
Balık Balıkçılık, 5(8):10-3  
 Karadeniz balıklarının pelâjic yumurta  
 ve lârvalarının tâyin anahtarı: Kefal  
 (loban) balığı - Mugil cephalus L.,  
 Kefal (sivri burun) balığı - Mugil  
saliens Risso, Kefal (singil) balığı -  
Mugil auratus Risso (A key to  
 pelagic eggs and larvae of the Black  
 Sea fishes: Mugil cephalus, Mugil  
saliens, Mugil auratus)

Content as per title.

SJH:efa

MF

Alperovich, M.L. (1957) 570020  
Transl.Ser.Pacif.Salm.Invest., (14)  
 A note on the salmon fishery in the Far  
 East

Altan, H. (1957) 570023  
Balık Balıkçılık, 5(2):21-3  
 Karadeniz balıklarının pelâjic yumurta  
 ve lârvalarının tâyin anahtarı: 1.  
 Uskumru balığı - Scomber scombrus L.  
 (A key to pelagic eggs and larvae of  
 the Black Sea fishes: 1. Scomber scombrus L.)

Brief review of investigations made,  
 with a determination key for eggs and  
 larvae of sp.

MF

SJH:efa

M

Altan H. (1957) 570021  
Balık Balıkçılık, 5(10):20-3  
 Karadeniz balıklarının pelâjic yumurta  
 ve lârvalarının tâyin anahtarı:  
 6A - Karadenizin çaça (şprot) balığı -  
Sprattus sprattus phalericus Risso,  
 Sardalya balığı - Sardina pilchardus  
sardina Günther (A key to pelagic  
 eggs and larvae of the Black Sea fishes:  
 6A - Sprattus sprattus phalericus,  
Sardina pilchardus sardina)

Illustrated.

SJH:sjh

M

Altan, H. (1957) 570024  
Balık Balıkçılık, 5(4):19-21  
 Karadeniz balıklarının pelâjic yumurta  
 ve lârvalarının tâyin anahtarı: 2.  
 Palamut balığı - Sarda sarda (A  
 key to pelagic eggs and larvae of the  
 Black Sea fishes: 2. Sarda sarda)

Content as per title.

SJH:efa

M

Altan, H. (1957) 570025  
Balık Balıkçılık, 5(5):15-6  
Karadeniz balıklarının pelâjik yumurta  
ve lârvalarının tâyin anahtarı: 3.  
Karadeniz hamsi balığı - Engraulis  
encrasicholus ponticus (A key to  
pelagic eggs and larvae of the Black  
Sea fishes: 3. Engraulis encrasicholus  
ponticus)

Content as per title.

SJH:efa

M

Alverson, F.G. and 570028  
D.M. Shimada (1957)  
Bull. Inter-Amer. trop. Tuna Comm., 2(2):  
25-79  
A study of the eastern Pacific fishery  
for tuna bait fishes, with particular  
reference to the anchoveta (Cetengraulis  
mysticetus)

Briefly describes the origin and develop-  
ment of the bait fishery important for  
tuna fishing (Neothunnus macropterus and  
Katsuwonus pelamis), its operations,  
extent and yield, and discusses some  
aspects of the effects of exploitation  
on the Eastern Pacific bait fish  
populations.

HR:hr

M

Altan, H. (1957) 570026  
Balık Balıkçılık, 5(7):16-7  
Karadeniz balıklarının pelâjik yumurta  
ve lârvalarının tâyin anahtarı: 4.  
Orkinos veya ton balığı - Thunnus  
thynnus (Linn) (A key to pelagic  
eggs and larvae of the Black Sea fishes:  
4. Thunnus thynnus (Linn) )

Content as per title.

SJH:efa

M

Amar, R. (1957) 570029  
Bull. Inst. océanogr. Monaco, 1100:1-9  
Gnathostenetroides laodicense nov.gen.nov.  
sp. Type nouveau d'asellota et classifi-  
cation des isopodes asellotes  
(Gnathostenetroides laodicense nov.gen.  
nov.sp. New type of asellota and  
classification of isopods asellots)

A taxonomic study of the organisms  
collected on the coast of Syria.

FAO:hr

M

Alvarez del Villar, J. et al. (1957) 570027  
Com. para el Fomento de la Piscic. rural,  
Mexico, 62 p.  
Los peces del Valle de Mexico (The  
fishes of Mexico Valley)

Historical review of ichthyological  
studies in the region; taxonomic key  
to and description of the spp.,  
principally of the genera Cyprinus,  
Carassius, Notropis, Algansea, Evarra,  
Salvelinus, Salmo, Girardinichthys,  
Chirostoma, Lepomis, and Micropterus.  
Ill., with morphometric data,  
distribution and habitat; discussion of  
origins and relations of this fauna.

HR:sjh

F

Ancellin, J. (1957) 570030  
Sci. Pêche, 43:1-10  
Considérations sur les harengs du sud de  
la Mer du Nord et de la Manche orientale  
(Considerations on herrings from the  
south of the North Sea and the eastern  
English Channel)

Contains information on races, migrations,  
spawning and stock characteristics.

FAO:hr

M

Anderson, A.W. and 570031  
E.A. Power (1957)  
Statist.Dig.U.S.Fish Wildl.Serv.,  
(39), 374 p.  
Fishery statistics of the United States,  
1954

MF

Anderson, W.W. and 570034  
J.W. Gehringer (1957)  
Spec.sci.Rep.U.S.Fish Wildl.Serv., (210)  
Physical oceanographic, biological and  
chemical data - South Atlantic coast of  
the United States. 'THEODORE N. GILL'  
cruise 3

Biological methods and procedures;  
narrative account of cruise; explanation  
of data sheets and tables; tables.

GLK:glk

M

Anderson, W.W. (1957) 570032  
Fish.Bull.,U.S., 57(119):397-414  
Early development, spawning, growth and  
occurrence of the silver mullet (Mugil  
curema) along the south Atlantic coast  
of the United States

Contents as per title.

FAO:glk

MF

Andreu, B. and 570035  
J. dos Santos Pinto (1957)  
Invest.pesq., 6:3-38  
Características histológicas y biométricas  
del ovario de sardina (Sardina pil-  
chardus Walb.) en la maduración, puesta  
y recuperación. Origen de los ovocitos  
(Histological and biometrical character-  
istics of sardine ovaria during ripening,  
spawning and recovering)

Description (well illustrated) of the  
microscopic and macroscopic changes of  
the gonad during ripening, spawning and  
recovering; with notes on the mechanism  
of spawning and on the renewal of the  
reserve ovocytes.

FAO:glk

M

Anderson, W.W. (1957) 570033  
Fish.Bull.,U.S., 57(120):415-25  
Larval forms of the fresh-water mullet.  
(Agonostomus monticola) from the open  
ocean off the Bahamas and South Atlantic  
coast of the United States

First record of this species from open  
ocean. Larvae described and their  
anatomical characters compared with  
comparable-sized young of Mugil curema  
and M. cephalus. The suggestion is made  
that A. monticola is catadromous.

FAO:glk

F

Andreu, B. and 570036  
J. dos Santos Pinto (1957)  
Notas Estud.Inst.Biol.Marit., 17:1-27  
Características histológicas y biométricas  
del ovario de sardina (Sardina pil-  
chardus Walb.) en la maduración puesta y  
recuperación. Origen de los ovocitos  
(Histological and biometric characteristics  
of the sardine ovary (Sardina pilchardus  
Walb.) during ripening, spawning and  
recovering. Origin of the ovocytes

A review is made of present knowledge on  
histological changes in sardine ovaria,  
accompanying ripening, spawning and recov-  
ering. The authors prove histologically  
that every female pilchard is able to  
spawn many times in the same spawning season.

FAO:hr

M



Andrews, J.D. (1957) 570037  
Proc.Nat.Shellf.Ass., 46(1955):140-54  
 Trapping oyster drills in Virginia. I.  
 The effect of migration and other factors  
 on the catch

The relative importance of migratory and  
 resident populations of drills in the  
 predation of oysters, particularly on  
 small plots, is unresolved. One year of  
 trapping on a three-acre plot on abandon-  
 ed public grounds suggested that  
 considerable migration occurred. Eupleura  
 was much more abundant than Urosalpinx  
 in the catches.

FAO:hr

MF

Anraku, M. (1957) 570040  
Bull.Fac.Fish.Hokkaido, 7(1):1-16  
 Some experiments on the variability of  
 horizontal plankton hauls and on the  
 horizontal distribution of plankton in a  
 limited area

Deals with the variability of catches in  
 horizontal tows with fish-larva net and  
 in high-speed tows with handy underway  
 plankton catcher, and with a preliminary  
 observation whether the distribution of  
 planktonic animals is statistically  
 random or non-random in a limited area.

FAO:sjh

M

Andrews, J.D. and 570038  
 W.G. Hewatt (1957)  
Ecol.Monogr., 27(1):1-25  
 Oyster mortality studies in Virginia. II.  
 The fungus disease caused by Dermocysti-  
dium marinum in oysters of Chesapeake  
 Bay.

Description of incidence geographically  
 and seasonally; relation of infection  
 with age and source of oysters;  
 experimental infection; examination of  
 the relation of infection with  
 temperature, salinity, handling and  
 other factors; discussion of the  
 importance of this organisms as cause of  
 disease.

GLK:glk

M

Aoyama, T. (1957) 570041  
Bull.Jap.Soc.sci.Fish., 22:679-84  
 (On the regeneration of the teleost scale,  
 with special reference to the yellow sea  
 bream, Taius tumifrons). Ni En

From consideration of regenerated scales  
 percentage variation at each age  $\sqrt{6.8\%}$   
 at 0 and I, 3% about one year/ from  
 sample of 263 fish taken in East China,  
 11/51-10/52, concludes cause of falling  
 off of scales is physiological rather  
 than mechanical.

SJH:sjh

M

Anichini, C. (1957) 570039  
Bull.Inst.oceanogr.Monaco, 1098:1-10  
 Ricerche di biologia marina nei mari  
 circostanti la Sardegna (Marine  
 Biological Research in the seas  
 surrounding Sardinia)

A quantitative and qualitative study of  
 the Gulf of Cagliari plankton variations.

FAO:hr

M

Applegate, V.C., J.H. Howell 570042  
 and A.E. Hall, Jr. (1957)  
Spec.sci.Rep.U.S.Fish Wildl.Serv.,  
 (207):157 p.  
 Toxicity of 4,346 chemicals to larval  
 lampreys and fishes

Report on screening tests made in search  
 for chemicals toxic to Petromyzon marinus  
 and also tested on Salmo gairdneri and  
Lepomis macrochirus.

GLK:wad

F

Ariav, Y. (1957) 570043  
Fish.Bull., Haifa, (14):16-7  
(Summary of a pelagic fishery season).  
lw

SJH

M

Arnold, J.R. and 570046  
E.C. Anderson (1957)  
Tellus, 9:28-32  
The distribution of carbon-14 in nature

The carbon-14 activity of oceanic materials indicates that the mixing half-time for carbon between the atmosphere and ocean surface waters is one or two decades, while the turnover time for the ocean as a whole is several hundred years.

FAO:jra

M

Armstrong, F.A.J. (1957) 570044  
J.Mar.biol.Ass.U.K., 36:509-17  
The iron content of sea water

A method, suitable for routine use, of determining total iron in sea water is described. Tests of the method, collection and storage of samples and the variability of results are described. Iron contents of water samples from the English Channel and the Bay of Biscay are reported.

GLK:hr

M

Aronson, L.R. (1957) 570047  
In "The Physiology of Fishes". Vol. II  
Behaviour. Edited by M.E. Brown, Academic Press Inc., Publishers, New York, pp. 271-304  
Reproductive and parental behaviour

FAO

MF

Arnold, D.C. (1957) 570045  
J.Mar.biol.Ass.U.K., 36(1):121-8  
The response of the limpet, Patella vulgata L., to waters of different salinities

Patella vulgata gives a positive response to splashing with sea water or water of high salinity, and a negative response to fresh water or water of low salinity. The intensity of the positive response broadly corresponds with the salinity of the water used. A positive response is given to NaCl solutions of concentrations approximately equivalent to sea water, while a supra-normal response is given to concentrations somewhat above that of sea water.

HR:hr

M

Arora, H.L. and 570048  
S.K. Banerji (1957)  
Indian J.Fish., 4(1):80-91  
Flying-fish fishery along the Coromandel coast

Estimate of total catch by sampling method; length-frequency, sex-ratio, and maturity and stomach contents, of the Cypsilurus coromandelensis catch.

GLK:glk

M

Arrhenius, G., M.N. Bramlette 570049  
and E. Picciotto (1957)  
Nature, Lond., 180:85-6  
Localization of radioactive and stable  
heavy nuclides in ocean sediments

Occurrence of ionium, thorium, radium,  
uranium and other rare elements in  
different types of marine deposits.

GLK:tl

M

Artüz, M.I. (1957) 570052  
Balık Balıkçılık, 5(10):1-6  
1957 Ağustosunda palamut durumu (The  
bonito situation in August 1957)  
Turkish catches; weight, length  
relation.

SJH:sjh

M

Artüz, I. (1957) 570050  
Balık Balıkçılık, 5(3):21  
Türkiye sularında ilk defa tesbit  
edilen bir balık türü: Trichiurus  
lepturus (Linne) (A new fish  
species caught in Turkish sea waters:  
Trichiurus lepturus (Linne) )

Reports the catch and reviews the  
biology and distribution of sp.

SJH:efa

M

Artüz, M.I. (1957) 570053  
Balık Balıkçılık, 5(4):15-9  
Elektrik akımı ile balıkçılık. I.  
(Electro-fishing. I.)

A popular article reviewing principles  
of fishing by electric shocker.

SJH:efa

M

Artüz, I. (1957) 570051  
Balık Balıkçılık, 5(7):1-6  
Akdeniz faunasının menşei hakkında  
(The origin of the Mediterranean fauna)

A feature article about the different  
species of fish living in the  
Mediterranean.

SJH:sjh

M

Artüz, M.I. (1957) 570054  
Balık Balıkçılık, 5(5):17-21  
Elektrik akımı ile balıkçılık. II.  
(Electro-fishing. II.)

A popular article reviewing methods  
of fishing by electric shocker.

SJH:efa

MF



Artüz, M.I. (1957) 570055

Balık Balıkçılık, 5(6):1-4

Balıkçılık biyolojisi ve problemleri  
(Fishery biology and its problems)

The author describes the problems met  
by fishery biologists and gives  
examples concerning Turkish seas and  
lakes.

SJH:sjh

MF

Asami, T. (1957) 570058

Rep.Nankai reg.Fish.Res.Lab., 5:74-83

(Annual variation of species composition  
of fishes migrating along the coast of  
Nankai region of Japan). Ni En

Analysis of yearly and monthly catch  
distributions of Sardinops melanosticta,  
Etrumeus micropus, Engraulis japonica  
and mackerels and horse mackerels.

FAO:sjh

M

Artüz, M.I. (1957) 570056

Balık Balıkçılık, 5(2):7-10

Balıklarda üreme. I. (The procreation  
process in fishes. I.)

A popular article on the manner of  
reproduction.

SJH:efa

MF

Asami, T. and M. Hanaoka (1957) 570059

Rep.Nankai reg.Fish.Res.Lab., 5:59-73

(On the variation of vertebral number of  
Iwashi, with special reference to its  
possibility of being a clue for testing  
difference of races or of environmental  
conditions during their development).  
Ni En

Analysis of data for 1949-55 from coastal  
stations, Nankai region, in relation to  
environmental conditions. Autumn and  
spring broods distinguished, and  
therefore growth identified up to 10 cm,  
after which mixing occurs.

FAO:sjh

M

Artüz, M.I. (1957) 570057

Balık Balıkçılık, 5(3):6-10

Balıklarda üreme. II. (The  
procreation process in fishes. II.)

A popular article on the manner of  
reproduction.

SJH:efa

MF

Asami, T., F. Kamiura 570060

and T. Yokota (1957)

Rep.Nankai reg.Fish.Res.Lab., 5:38-58

(Research on spawning of Iwashi fishes,  
with special reference to that of  
anchovy in 1953, in Hyuga Nada).  
Ni En

Results of monthly collections regarding  
horizontal distributions.

FAO:sjh

M

Ashby, A.W. (1957) 570061

J.agric.Econ., 12:262-82

The future pattern of food consumption  
in the United Kingdom

Includes comment on pattern of fish  
consumption; followed by discussion.

FAO:sjh

MF

Associazione per lo Sviluppo 570064

dell'Industria nel Mezzogiorno (1957)

Roma, 1957, 122 p.

I laghi salsi della Sardegna (The  
salt lakes in Sardinia)

Assman, A.V. (1957) 570062

Zool.Zh., 36(6):900-7

(On the role of microorganisms as a source  
of food for the young fish). Ru

Experiments on the feeding of hydrolysis  
yeasts Candida and Torulopsis utilis to  
the young of Acipenser guldenstadti  
Brandt, and of Torulopsis utilis and the  
Azotobacter chroococcum to young Guppyi  
sp., Xiphophorus sp., and Macropodus sp.  
Change of weight and mortality during the  
experimental period were taken as  
indicators of the results of the  
experiments.

FAO:glk

F

Atlantic States Marine 570065

Fisheries Commission (1957)

New York, 94 pp.

Fifteenth annual report of the Atlantic  
States Marine Fisheries Commission

Administrative report with notes on  
research work in progress.

FiB:glk

MF

Association Internationale de 570063

Limnologie Théorique et

Appliquée. Section Française (1957)

Vie et Milieu, 8(1):99-108

Compte rendu des séances de travail -  
Banyuls, 14-17 Mai 1956 (Proceedings  
of the work sessions)

Contains the records of the meeting  
encompassing discussions on technical  
activities.

FAO:hr

F

Audouin, J. (1957) 570066

Fish.Ind., Moscow, 21:357-75

Note préliminaire sur l'hydrologie de  
l'étang de Thau (Preliminary note on  
the hydrology of Thau pond). Ru

Geographic situation and meteorological  
conditions of the pond; diurnal and  
annual variations in hydrological  
conditions, and comparison with other  
ponds.

FAO:glk

M

Austin, T.S. (1957) 570067  
Spec.sci.Rep.U.S.Fish Wildl.Serv.,  
(217):186 p.

Summary, oceanographic and biological  
data, Marquesas Islands, area, August-  
September, 1956 (Equapac)

570069  
(Card 2)

"Ekman" grab. Treatment of catch;  
tests in Black Sea.

GLK

M

FAO:sjh

M

Australia. Commonwealth Bureau 570068  
of Census and Statistics (1957)  
Canberra, 18 p.

Statistical Bulletin Fishing and  
Whaling, Australia No. 2, 1955-56

Gives for years 1951-56 quantities  
and values of catches of fishes,  
crustaceans, molluscs, pearl and  
trochus shell, and whales; boats  
and equipment in use, men employed;  
leaves granted.

:sjh

MF

Bachmann, R.W. (1957) 570071  
Progr.Fish Cult., 19(1):44-6  
Professionalism in fishery biology

Review (based primarily on a question-  
naire sent to the 48 U.S. states) of  
the opportunities for fishery biologists  
to act as consultants for owners of  
private waters or to manage these  
waters.

WAD:wad

F

Bacescu, M. (1957) 570069  
Bul.Inst.Cerc.piscic.Roman., 16(2):  
69-82

Apucatorul-sonda pentru studiul  
cantitativ al organismelor de fund -  
un aparat mixt pentru colectarea  
simultana a macro- si microbentosului  
(A grab for quantitative study of  
organisms living in deep waters -  
a new apparatus for the simultaneous  
capture of macro- and microbenthos).  
Ru Fr

Illustrated description of design  
and use of a modified and improved

Backus, R.H. and 570072  
H. Barnes (1957)  
Deep-Sea Res., 4:116-9  
Television echo-sounder observations  
of midwater sound scatterers

Simultaneous observations with echo-  
sounders and underwater television  
have been made both in and out of  
deep scattering layers. The type of  
echo record and its relation to the  
number of fish scattering the sound  
was observed.

FAO:tl

MF



Baerends, G.P. (1957) 570073  
 In "The Physiology of Fishes". Vol.II.  
 Behaviour. Edited by M.E. Brown, Academic  
 Press Inc., Publishers, New York, pp.229-69  
 The ethological analysis of fish  
 behaviour

Baker, A. de C. (1957) 570076  
Deep-Sea Res., 4:126-9  
 Underwater photographs for the study of  
 oceanic squid

A technique for photographing squid at  
 great depths has been developed, which  
 allows the species and size to be  
 determined. Those photographed so far  
 appear to be the same species as are  
 commonly seen at the surface.

FAO

MF

FAO:tl

M

Bahamonde, N.N. (1957) 570074  
Invest.zool.chil., 3:119-21  
 Sobre la distribución geográfica de  
Lysiosquilla polydactyla Von Martens, 1881  
 (Crustacea, Stomatopoda) (On the  
 geographic distribution of L. polydactyla)

It is extended from Hoste Island, Tierra  
 del Fuego far north to Maullin, near  
 Chiloe Island.

Balakrishnan, V. (1957) 570077  
Curr.Sci., 26:57-8  
 Occurrence of larvae and young mackerel  
 (Rastrelliger canagurta Cuvier) off  
 Vizhinjam, near Trivandrum (Lett)

Catches made 1955 and 1956 show spawning  
 time and place, and evidence of growth  
 of young mackerel

FiB:hr

M

FAO:sjh

M

Bainbridge, R. (1957) 570075  
Biol.Rev., 32:91-115  
 Size, shape and density of marine phyto-  
 plankton concentrations

Reviews data obtained from surface  
 observations; intensive sampling with  
 automatic recorders; discusses the role  
 that might be played by wind-induced  
 water movement in shaping the observed  
 patterns of distribution.

FAO:glk

M

Balarama Murty, C. (1957) 570078  
Curr.Sci., 26:80  
 Water-masses of the Western Central Bay  
 of Bengal during November

FAO

M

Ballantine, D., and B.C. Abbott (1957) 570079  
J.gen.Microbiol. (Symposium on plankton), 16:274-81  
Toxic marine flagellates: their occurrence and physiological effects on animals

World distribution of marine "red tides", their economic importance (damage), and the physiological effects of Gymnodinium veneficum on higher organisms.

FiB:tl

M

Bard, J. (1957) 570082  
Bull.franç.Piscic., 29:136-46  
Le développement, l'évolution et l'avenir de la pisciculture au Cameroun (The development, evolution and future of fish-culture in the Cameroons)

A review of fishculture practices in the Cameroons.

FAO:hr

F

Banarescu, P. (1957) 570080  
Bul.Inst.Cerc.piscic.Roman., 16(2):36-45  
Raspindirea si rolul biologic al guvizilor din complexul Razelm (Distribution and biological role of gobies in the Razelm lagoon complex).  
Ru Fr

Significance of Gobius syrman, G. fluvialis, Pomatoschistus microps leopardinus and other spp., as food of larger fish, especially "sandres".

FAO:sjh

MF

Barnard, J.L. and D.J. Reish (1957) 570083  
Science, 125(3241):236  
First discovery of marine wood-boring copepods

Five species of wood-boring harpacticoid copepods belonging to the genera Tisbe, Amphiascus, and an unknown genus were isolated from test blocks in California.

FAO:hr

M

Barca, Gh. (1957) 570081  
Agro-Silvica de Stat. Bucuresti, 550 p.  
Hidroamelioratii piscicole (Hydro-graphic improvement in fisheries)

Barnes, H. (1957) 570084  
Oikos, 8:1-15  
The northern limits of Balanus balanoides (L.)

The northern limits of this and other barnacles, and also some littoral molluscs, may be correlated with the summer limits of the ice pack, the effect of the latter being indirect through severity of conditions and the time available for nauplius release and settlement.

F

FAO:jae

M

Barnes H. and 570085

G.H. Hasle (1957)

Nytt.Mag.Bot., 5:113-23

A statistical examination of the distribution of some species of dinoflagellates in the polluted inner Oslo Fjord

A statistical analysis of the numbers of dinoflagellates in collections taken under varying conditions in the polluted Oslo Fjord in July 1948. The variability of samples at a single station and over wide areas with respect to several species are considered.

FAO:tl

M

Barsukov, V.V. (1957) 570088

Vop.Ikhtiol., 8:28-50

Rasprodelenie zubatok (Anarhichas lupus, A. minor i A. latifrons) v Barentsevom more (Distribution of the dogfish (Anarhichas lupus, A. minor and A. latifrons) in the Barents Sea)

Analysis of statistics of catch (absolutely and per unit effort) of these species by months, locality and depth, with data on size and other biological characteristics in an investigation of reproduction and migration.

FAO:glk

M

Barrett, P.H. (1957) 570086

Limnol.Oceanogr., 2:287-94

Potassium concentrations in fertilized trout lakes

Describes experiments in Michigan (USA) lakes designed to determine if biological productivity could be increased by application of commercial fertilizers.

HR:wad

F

Bartlett, M.S. (1957) 570089

Biometrika, 44(1-2):27-42

On theoretical models for competitive and predatory biological systems

A review of the mathematical theories.

FAO:sjh

MF

Barrington, E.J.W. (1957) 570087

J.Mar.biol.Ass.U.K., 36(1):1-16

The distribution and significance of organically bound iodine in the ascidian Ciona intestinalis Linnaeus

Some features of the organization of the endostyle of Ciona intestinalis are described followed by a description of the distribution of iodine within the pharynx, intestine and testes, and a comparison of the endostyle of Ciona and that of the ammocoete.

HR:hr

M

Batham, E.J. (1957) 570090

Aust.J.Sci., 19(3):87-91

History of the Portobello Marine Biological Station

GLK

M



<p>Bauer, O.N. (1957) 570091  <u>Vop.Ikhtiol.</u>, 8:179-87          Epizooticheskoe sostoianie ryb v prudovykh khoziaistvakh SSSR i ocherednye zadachi bor'by s parazitarnymi zabolevaniami v nikh (The epizootic condition of fish in pond economy of U.S.S.R. and alternative problems in the prevention of parasitic diseases among them)</p> <p>Tabulation of the diseases of carp observed in farm ponds in various regions of U.S.S.R. with discussion of outbreaks and control measures adopted and recommendations for a campaign.</p> <p>FAO:glk F</p>	<p>Becker, W.A. (1957) 570094  <u>Biometrics</u>, 13:549-50          Computing mortality in experiments with irrelevant deaths</p> <p>Abstract of paper presented at Meeting of Biometric Society and American Institute of Biological Science, 27-28/8/57; notes on arithmetic method of correcting experimental mortality data for deaths due to causes other than those being investigated.</p> <p>SJH:sjh MF</p>
<p>Beadle, L.C. (1957) 570092  <u>Annual Review of Physiology</u>, 329-58          Osmotic and ionic regulation in aquatic animals</p> <p>F</p>	<p>Beliacov, G.M. and 570095          P.V. Ushakov (1957)  <u>C.R.Acad.Sci.U.R.S.S.</u>, 112:137-40          (Certain regularities in the quantitative distribution of bottom fauna in Antarctic waters). <u>Ru</u></p> <p>Quantitative distribution of benthos with the depth; the quantitative occurrence of different taxonomical groups within different depth ranges in the Antarctic and comparison with the northern seas of Russia.</p> <p>:tl M</p>
<p>Becker, P. (1957) 570093  <u>Nature, Lond.</u>, 180:559-60          Changes in response to light stimuli of the larvae of <u>Culicoides circumscriptus</u></p> <p>Behaviour with respect to light varies with hunger. This is useful in determining types of material on which larvae feed.</p> <p>FAO:jas F</p>	<p>Bellis, E.D. (1957) 570096  <u>Copeia</u>, (2):85-9          The effects of temperature on salientians breeding calls</p> <p>A study of the relations of air and water temperature with the number of calls produced in a given time interval (frequency of call) and to the lengths of the individual calls of <u>Pseudacris nigrita triseriata</u>, <u>P. clarki</u>, <u>P. streckeri</u>, and <u>Bufo terrestris charlesmithi</u>.</p> <p>HR:hr F</p>

<p>Bennett, G.W. and W.F. Childers (1957)  J. Wildlife Mgmt., 21(4):414-24  The smallmouth bass, <u>Micropterus dolomieu</u>, in warm-water ponds</p> <p>Growth, mortality and reproduction in 12 representative ponds. Population sizes, feeding habits.</p> <p>FAO:sjh F</p>	<p>Ben-Tuvia, A. (1957)  Fish.Bull., Haifa, (14):18-9  (Meet your fish). <u>Iw</u></p> <p>Figures of and notes on <u>Trachurus trachurus</u>, <u>Siganus rivulatus</u>, <u>Dicentrarchus punctatus</u>, <u>Sarpa salpa</u>, <u>Hippocampus guttulatus</u>, <u>Nerophis maculatus</u> and <u>Stromateus fiatola</u>.</p> <p>SJH:sjh M</p>
<p>Bennett, M.F., J. Shriner and R.A. Brown (1957)  Biol.Bull.Wood's Hole, 112(3):267-75  Persistent tidal cycles of spontaneous motor activity in the fiddler crab, <u>Uca pugnax</u></p> <p>Laboratory study on the frequency and intensity of spontaneous locomotor activity of the crab.</p> <p>FAO:tl M</p>	<p>Ben-Tuvia, A. (1957)  Fish.Bull., Haifa, (11):16-7  (Meet your fish). <u>Iw</u></p> <p>Illustrations of and short notes on <u>Caesiomorus glaucus</u>, <u>Rhinobatus comicus</u>, <u>Coris julis</u>, <u>Pleroplatea altavela</u>, <u>Argentina sphyraea</u>, <u>Scyliorhinus canicula</u>, <u>Oxynotus centrina</u>, <u>Chlorophthalmus agassizi</u> and <u>Capros aper</u>.</p> <p>SJH:sjh M</p>
<p>Benoit, R.J. (1957)  Limnol.Oceanogr., 2:233-40  Preliminary observations on cobalt and vitamin B<sub>12</sub> in fresh water</p> <p>The cobalt, copper, and iron contents of a vertical series of water samples from Linsley Pond are given. The proportions of the total cobalt tied up in vitamin B<sub>12</sub> in the epi- and hypolimnion are estimated.</p> <p>HR:tl F</p>	<p>Ben-Tuvia, A. (1957)  Fish.Bull., Haifa, (13):18-22  (Meet your fish). <u>Iw</u></p> <p>Illustrations with short notes on <u>Myliobatis</u>, <u>Squatina</u>, <u>Merolepis</u>, <u>Strongylura</u>, <u>Echelus</u>, <u>Syngnathus Murenophis</u>.</p> <p>SJH:sjh M</p>

Ben-Yami, M. (1957) 570103  
Fish.Bull., Haifa, (13):22-4  
(Construction of the Italian trawl net  
from machine-made webbing). Iw

Illustrated account.

SJH:sjh

M

Berkeley, E. and C. Berkeley (1957) 570106  
Can.J.Zool., 35:573-8

On some pelagic polychaeta from the north-  
east Pacific north of latitude 40°N. and  
east of longitude 175°W.

Two species (Otopsis longipes Ditlevsen  
and Epidiopatra hupforiana Augener) new to  
the Pacific Ocean and four new to it north  
of latitude 40°N. (Phalocrophorus pictus  
Greef, Plotohelmis tenuis Apstein,  
Tomopteris cavallii Rosa, and Travisiopsis  
lobifera Levinson) are recorded. Four  
others, one of which (Typhloscolex mülleri  
Busch) was taken at a more northerly  
latitude in the northeast Pacific than  
previously, are also listed.  
FAO:hr M

Ben-Yami, M. (1957) 570104  
Fish.Bull., Haifa, (14):4-9  
(The International Fishing Gear Congress  
in Hamburg). Iw

A report.

SJH:sjh.

MF

Berkson, J. (1957) 570107  
Biometrics, 13(1):28-34  
Tables for the maximum likelihood estimate  
of the logistic function

Gives theory and tables for fitting  
logistic curve to observed data of bio-  
assay, etc.

SJH:sjh

MF

Benyamini, D. (1957) 570105  
Fish.Bull., Haifa, (14):31-2  
(An experiment in enlarging the opening of  
the trawl net on the FMV DROR). Iw

Incl. ill. of gear.

SJH:sjh

M

Bernard, F. (1957) 570108  
Bull.Soc.Hist.nat.Afr.N., 48(5-6):378-84  
Présence dans la Mer Morte (Israël) d'un  
plancton unicellulaire de type méditer-  
ranéen (Presence in the Dead Sea  
(Israel) of a unicellular planktonic  
organism of the Mediterranean type)

Water samples from the western shores of  
the Dead Sea were found very rich in  
Coccolithus fragilis and Exuviella marina  
predominant in the Mediterranean.

:hr

M



<p>Bernhard, M. (1957) 570109  <u>Pubbl.Staz.zool.Napoli</u>, 29:80-95          Culture of sea urchins, <u>Arbacia lixula</u>,          in artificial and natural sea water by          means of ion exchange and chelating          agents</p>	<p>Berthois, L. and 570112          R. Brenot (1957)  <u>Rev.Trav.Inst.Pêches marit.</u>, 21:425-7          Note préliminaire sur la topographie du          talus du plateau continental dans le          golfe de Gascogne (Preliminary note          on the topography of the talus of the          continental shelf in the Gulf of Gascony)</p>
<p>M</p>	<p>FAO M</p>
<p>Berrill, N.J. (1957) 570110  <u>Sci.Amer.</u>, 197(6):118-25          The indestructibel Hydra           An illustrated report on recent research          on regeneration of this coelenterata.</p>	<p>Berthois, L. and 570113          R. Brenot (1957)  <u>Rev.Trav.Inst.Pêches marit.</u>, 21:431-4          Topographie sous-marine de l'"Outer Silver          Pit" et du "Markhams Hole" Lat.N.54°          Long.E.Gr.2° (Submarine topography of          the "Outer Silver Pit" and of "Markhams          Hole" Lat.N.54° Long.E.Gr.2°)           Comparison of existing charts with results          of an echo-sounding survey and presentation          of a new chart.</p>
<p>FAO:sjh F</p>	<p>FAO:glk M</p>
<p>Berrill, N.J. and 570111          J. Berrill (1957)  <u>Dodd, Mead, New York</u>, 305 pp.          Questions answered about the seashore</p>	<p>Berzins, B. (1957) 570114  <u>Skrsverig.FiskFören., Årsskrift 1956</u>,:          77-80          Märkning av gäddor med fenklippning. 4          (Marking fish by fin-clipping). En           Review of the method with special emphasis          on fin regeneration.</p>
<p>M</p>	<p>TL:tl MF</p>

<p>Borzinš, B. (1957) 570115  <u>Svensk FiskTidskr.</u>, 66(12):185-90  Fiskevård och nya fiskarter (Fisheries management and new fish species)</p> <p>Review of the transplantation of foreign fish species in various parts of the world and the results of these transplantations.</p> <p>FAO:tl MF</p>	<p>Best, E.A. (1957) 570116  <u>Calif.Fish Game</u>, 43(1):97-8  Recent occurrences of the red brotula, <u>Brosmophycis marginata</u> (Ayres), in California waters</p> <p>List of specimens, with positions found, dates, and some measurements.</p> <p>HR:sjh M</p>
<p>Borzinš, B. (1957) 570116  <u>Svensk FiskTidskr.</u>, 66:28-31  Märkning av gäddor med fenklippning (Tagging pikes by cutting the fins)</p> <p>Investigations on the regeneration of fins.</p> <p>FAO:tl F</p>	<p>Best, E.A. (1957) 570119  <u>Calif.Fish Game</u>, 43(2):147  Tagged dover sole (<u>Microstomus pacificus</u>) at liberty six years</p> <p>Fish with Peterson-disk tag recaptured within 25 miles of position released in 6/50 of month of Mad River, California.</p> <p>WAD:sjh M</p>
<p>Borzinš, B. (1957) 570117  <u>Vandringsfisk.Medd.</u>, 2:10 pp.  (Investigations on natural fish ponds, No. 9. On the loss of fish and the guarding of ponds). <u>Sv</u></p> <p>Results of the investigation on the loss of fish from the ponds due to fish-eating birds. Half-monthly values on pH, temperature, oxygen, iron, <math>\text{KMnO}_4</math> consumption, plankton, etc., are also given for the ponds.</p> <p>TL:tl F</p>	<p>Bethke, W. (1957) 570120  <u>Idaho Wildl.Rev.</u>, 10(2):6-7  Distribution and release of hatchery fish</p> <p>A popular account of methods utilized in Idaho with special reference to trout.</p> <p>WAD:wad F</p>

<p>Bhattacharyya, R.N. (1957) 570121  <u>Mar.Res.</u>, (3):15 p.  The food and feeding habits of larval and post-larval herring in the northern North Sea</p> <p>Stomachs and intestines of 2521 larval and post-larval herring taken in the Moray Firth, Cromarty and Fair Isle areas were examined from collections made in April, August, September, October and November, 1952. Light plays a very important part in the feeding, and larval and post-larval herring feed very little after darkness and start feeding with daybreak. Attempt made to estimate rate of digestion of copepods, copepod eggs, lamellibranch and gastropod larvae.</p> <p>FAO:sjh M</p>	<p>Bhimachar, B.S. (1957) 570124  <u>Curr.Sci.</u>, 26:208  Prof. Basant Kumar Das</p> <p>An obituary. Worked on air-breathing fishes and was associated with organization of Hyderabad Fisheries Department.</p> <p>FAO:sjh F</p>
<p>Bhattacharyya, R.N. (1957) 570122  <u>Proc.nat.Inst.Sci.India</u>, 23(3)A:191-8  Wave resistance in deep water due to the accelerated motion of a pressure system</p> <p>The wave resistance of the waves produced by the uniformly accelerated motion of a pressure system over the undisturbed surface of deep water has been worked out theoretically. The resistance has been divided into three components, one representing the direct effect of acceleration and two others the uniform motion of a pressure system.</p> <p>FAO:tl M</p>	<p>Bhimachar, B.S., S.K. Banerji 570125  and G. Venkataraman (1957)  <u>Indian J.Fish.</u>, 4(1):1-19  A study of the variability in the fish catches taken by successive hauls in the inshore waters off Calicut</p> <p>Analysis of the variance of numbers in catches between hauls, zones and dates for all hauls, and between dates, hauls and species for each of the four zones.</p> <p>GLK:glk M</p>
<p>Bhavanarayana, P.V. and 570123  E.C. La Fond (1957)  <u>Indian J.Fish.</u>, 4(1):75-9  On the replenishment of some plant nutrients during the upwelling period on the east coast off India</p> <p>Discussion of silicate and phosphate profiles with relation to wind movement and water circulation.</p> <p>GLK:glk M</p>	<p>Bidwell, R.G.S. (1957) 570126  <u>Canad.J.Res.(Bot.)</u>, 35(6):945-50  Photosynthesis and metabolism of marine algae - I. Photosynthesis of two marine flagellates compared with <u>Chlorella</u></p> <p>The products of photosynthesis of two marine flagellates have been examined and compared with those of <u>Chlorella pyrenoidosa</u> with the use of radio-active carbon and chromatographic techniques.</p> <p>FAO:tl MF</p>



Biogler, P.(Comp.) (1957) 570127  
Fischwar.u.Feinkostindustr., 29(8):129-30  
 Jahreszeitliches Vorkommen des Herings im  
 Nord-Atlantik (Seasonal appearance  
 of herrings in the North Atlantic)

Stages of maturity and size composition  
 of Clupea harengus from January to  
 December.

FAO:hr

M

Billings, W.D. (1957) 570130  
Annu.Rev.Pl.Physiol., 8:375-92  
 Physiological ecology

MF

Bieri, R. (1957) 570128  
Pacif.Sci., 11(3):255-64  
 The Chaetognath fauna off Peru in 1941

Describes the distribution of the  
 following species in the surface water  
 of the Peru coastal current: Sagitta sp.  
S. bodoti, S. californica, S. ferox,  
S. neglecta, S. tenuis, S. regularis,  
S. robusta, S. enflata, S. hexaptera,  
S. lyra, S. minima, S. pacifica,  
Krohnitta pacifica and Pterosagitta draco.

FAO:hr

M

Birkett, L. (1957) 570131  
Fisheries Laboratory Lowestoft, Mimeo, 4 p.  
 Certain regularities in the quantitative  
 distribution of bottom fauna in Antarctic  
 waters

English translation of 570095.

FiB

M

Bigelow, H.R. and W.C. Schroeder (1957) 570129  
Bull.Mus.comp.Zool.Harv., 117(1):150 p.  
 A study of the sharks of the suborder  
 Squaloidea

Review of systematics of this group, with  
 diagnostic keys.

Birkett, L. (1957) 570132  
Fisheries Laboratory Lowestoft, Mimeo, 6 p.  
 Interstitial waters of the Pacific Ocean  
 and adjoining seas

English translation of 581887.

SJA:sjh

M

dB

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| <p>Birkett, L. (1957) 570133<br/> <u>Fisheries Laboratory Lowestoft, Mimeo 2 p.</u><br/>         On the fecundity of the Barents Sea capelin<br/> <br/>         English translation of 581889.</p> | <p>Birshtein, Ia.A. (1957) 570136<br/> <u>Zool.Zh., 36(7):961-83</u><br/>         O nekotorykh osobennostiakh ul'traabissal'noi fauny na primere roda <u>Storothyngura</u> (Crustacea Isopoda Asellota) (Certain peculiarities of the ultra-abyssal fauna, as for example the genus <u>Storothyngura</u> (Crustacea Isopoda Asellota))<br/> <br/>         Description of 6 new species of the genus <u>Storothyngura</u> from the Kurile-Kamchatka, Japan and Aleutian trenches.</p> |
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FiB

M

FAO:tl

M

Birkhoff, C. (1957) 570134  
Bremerhaven, Nordwestdeutscher Verlag Ditzien, 166 p.  
 Seefischerei in Gegenwart und Zukunft. Probleme, Methoden und Fahrzeuge der Weltfischerei mit fischereitechn. Lexicon (Sea fisheries at present and in the future. Problems, methods and vessels of the world fisheries with technological dictionary)

FAO

M

Bishop, M.W.H. and 570137  
 C.R. Austin (1957)  
Endeavour, 16:137-50  
 Mammalian spermatozoa

Includes reproduction of Retzius' illustration of spermatozoon of pilot whale, Globiocephalus melaena.

GLK:sjh

M

Birman, I.B. (1957) 570135  
Vop.Ikhtiol., 8:3-7  
 Kuro-sio i chislennost' amurskoi osennoi kety (The Kuroshio and the quantity of oceanic Amur salmon)

Discussion of the catch of this species, supported by reference to the catch of sardines, in relation to cyclical changes in average level of water temperature.

FAO:glk

MF

Bishop, M.W.H. and 570138  
 D.J. Crisp (1957)  
Nature, Lond., 179:482-3  
 The Australasian barnacle, Elminius modestus, in France

Elminius modestus is established over two large areas of the French coast extending from the Belgian frontier to Cap de la Hague and from the estuary of the Yandy to the Rode de Brest.

GLK:hr

M

Bishop, M.W.H. et al. (1957) 570139  
Bull.Inst.océanogr.Monaco, 1099:1-12  
Sur l'écologie des Cirripèdes de la côte  
atlantique française (On the ecology  
of the Cirripeds of the French Atlantic  
coast)

A study of distribution and abundance of  
Elminus modestus, Chthamalus stellatus,  
Balanus balanoides, B. improvisus, B. cre-  
natus, B. eburneus, B. amphitrite var.  
denticulata, B. perforatus, V. strömia,  
Pollicipes cornucopiae.

FAO:hr

M

Black, E.C. (1957) 570142  
J.Fish.Res.Bd Canada, 14:645-9  
Alterations in the blood level of lactic  
acid in certain salmonoid fishes follow-  
ing muscular activity - II. Lake trout,  
Salvelinus namaycush

During the summer of 1954, 1½-year-old  
hatchery-raised trout, Salvelinus namay-  
cush were subjected to 15 minutes of  
severe muscular exercise at the trout  
hatchery at Summerland, B.C. Following  
exercise, fish were allowed to recover  
for various intervals up to 24 hours.  
Blood samples were taken and analyzed.

GLK:glk

F

Bishop, Y. et al. (1957) 570140  
Bull.Fish.Res.Bd Can., 110:207 p.  
Index and list of titles, publications of  
the Fisheries Research Board of Canada  
1901-1954

Black, E.C. (1957) 570143  
Rev.canad.Biol., 16(4):468-9  
Mortality in two-year old Sockeye salmon,  
Oncorhynchus nerka, following severe  
muscular exercise

FAO

MF

FAO

MF

Black, E.C. (1957) 570141  
J.Fish.Res.Bd Canada, 14(2):117-34  
Alterations in the blood level of lactic  
acid in certain salmonoid fishes following  
muscular activity - I. Kamloops trout,  
Salmo gairdneri

The present investigation was undertaken in  
order to describe the recovery pattern from  
the elevated level of lactic acid in the  
blood. Observations were also made upon the  
blood glucose level during recovery. In  
addition, the rate of increase of the blood  
lactic acid level with exercise; the effect  
of moderate exercise; the effect of varying  
oxygen levels in the respired water; and a  
preliminary study on the effect of tempera-  
ture on increased lactic acid level in  
the blood.

GLK:glk

F

Black, E.C. and 570144  
I. Barrett (1957)  
Canad.Fish Cult., 20:13-24  
Increase in levels of lactic acid in the  
blood of cutthroat and steelhead trout  
following handling and live transportation

Experiments with Salmo clarki and  
S. gairdneri.

FAO:wad

F



Blackburn, M. (1957) 570145  
Aust.J.Mar.Freshw.Res., 8:29-54  
The relation between the food of the  
Australian barracouta, Thyrsites atun  
(Euphrasen), and recent fluctuations in  
the fisheries

10,000 stomach analyses; geographical  
variations; relation of feeding to  
availability to coastal fishermen.

GLK:sjh

M

Blair, A.A. (1957) 570148  
J.Fish.Res.Bd Canada, 14(2):135-40  
Salmon tagging at Francis Harbour Bight,  
Labrador  
Tagging of Salmo salar.

GLK:glk

M

Blacker, R.W. (1957) 570146  
Fish.Invest., Lond., Ser.II., 20(10)  
Benthic animals as indicators of hydro-  
graphic conditions and climatic change  
in Svalbard waters

A brief account is given of the past  
benthos work in the area (1878-1931).  
Detailed charts of the distribution of the  
selected species from past and present  
records are given, and the differences  
between the past and present distribution  
of the indicator species have been used  
to show how hydrographic conditions have  
changed in recent years.

FAO:sjh

M

Blair, W.F. (1957) 570149  
In "Vertebrates of the United States" by  
W.F. Blair et al. McGraw-Hill Book  
Company, Inc., pp. 615-774  
Part VI. Mammals

Includes aquatic forms.

FAO:sjh

MF

Blair, A.A. (1957) 570147  
J.Fish.Res.Bd Canada, 14(2):141-4  
Salmon tagging at Cape Charles, Labrador

Tagging of Salmo salar.

GLK:glk

MF

Blair, W.F. et al. (1957) 570150  
McGraw-Hill Book Company, Inc., 819 p.  
Vertebrates of the United States

A manual for the identification of all  
known vertebrates through taxonomic keys,  
check lists, descriptions, and ranges.  
Geographic coverage is limited to the  
continental United States and its adjacent  
waters excluding marine fishes and turtles.

FAO:sjh

MF

Blanchard, D.C. and  
A.H. Woodcock (1957)  
Tellus, 9(2):145-58  
Bubble formation and modification in the  
sea and its meteorological significance

570151

It is believed that the vast majority of  
the airborne salt nuclei arise from  
bursting bubbles at the air-sea water  
interface. Four natural mechanisms for  
the production of these bubbles have  
been studied.

FAO:tl

M

Bleakney, S. (1957)  
Copeia, (2):141-2  
The egg-laying habits of the salamander,  
Ambystoma jeffersonianum

570154

A critical review of W.T. Stille (1954,  
Copeia (4):300), with account of  
observations on the egg-laying phenomenon  
of this sp. in Canada.

HR:efa

F

Blanko, W. (1957)  
Krögers Buchdruckerei, Hamburg -  
Blankenese, 600 p.  
Die Seefischerei Nordwest-Europas  
(Sea fisheries of Northwestern Europe)

570152

M

Bleakney, S. (1957)  
Copeia, (2):143  
A snapping turtle, Chelydra serpentina  
serpentina, containing eighty-three eggs

570155

Records specimen taken in Quebec with  
83 fully formed eggs in oviducts.

HR:efa

F

Blaxter, J.H.S. (1957)  
Mar.Res., (1):15 p.  
Herring Rearing-III. The effect of  
temperature and other factors on myotome  
counts

570153

Counts of myotomes have been made on  
herring larvae of different parentage  
and 'race', hatched out in the laboratory  
at different incubation temperatures  
ranging from 5.1°C to 14.68°C. Counts  
were made to the anus and to the end of  
the body.

FAO:sjh

M

Bleakney, S. and  
F. Cook (1957)  
Copeia, (2):142-3  
Additional records of the four-toed  
salamander, Hemidactylium scutatum, from  
Nova Scotia

570156

Content as per title.

HR:efa

F

Bleakney, S. and F. Cook (1957) 570157  
Copeia, (2):143  
Two erythristic Plethodon cinereus from  
Nova Scotia

Reports capture of two adult specimens  
of this color phase.

HR:efa

F

Blum, J.L. (1957) 570160  
Hydrobiology, 9(4):361-405  
An ecological study of the algae of the  
Saline River, Michigan

Quantitative and qualitative records for  
1951-53 of physico-chemical environmental  
factors relating to algal communities  
growth in relation to zones of minor  
pollution.

FAO:sjh

F

Blewitt, M. (1957) 570158  
MacGibbon and Kee, London 1957, 168 p.  
Surveys of the seas - A brief history  
of British hydrography

A selection of manuscripts (working maps)  
of the coastal hydrographic surveys,  
giving an historical review and develop-  
ment of the methods of surveying and  
mapping the coasts.

FAO:tl

M

Blytho, H.J. (1957) 570161  
Chem. Engng Min. Rev., 49(8):59-62  
Safe disposal of radioactive wastes

MF

Blower, J.G. (1957) 570159  
Nature, Lond., 180:560  
Feeding habits of a marine centipede

Scolioplanes maritimus observed feeding  
at night on Balanus balanoides and  
Littorina saxatilis.

GLK:jac

M

Bodon, B.P. and 570162  
E.M. Kampa (1957)  
Pacif. Sci., 11:229-35  
Records of bioluminescence in the ocean

Account of observations on bioluminescence  
in deep water and effect of moonlight on  
vertical distribution of luminescent  
organisms off Oahu and San Diego.

FAO:efa

M



Böhlke, J. and 570163  
D.M. Cohen (1957)  
Copeia, (2):159-60  
The eastern Pacific species of Callionymus

Callionymus garthii is synonymized with  
C. atrilabiatus and the geographic range  
of the species is extended from Colombia  
to the Gulf of California.

HR:hr

M

Bogen, H. (1957) 570166  
Norsk Hvalfangsttid., 46:489-501  
Main events in the history of Antarctic  
exploration

M

Böhlke, J.E. and 570164  
Ch.C.G. Chaplin (1957)  
Science, 125(3243):353  
Oral incubation in Bahaman jawfishes  
Opisthognathus whitchursti and O. maxillosus

Account of the capture of an adult with  
eggs held in its mouth and of subsequent  
aquarium observations of this individual  
establishing that it nursed the eggs  
until incubation.

FAO:glk

M

Boguslavskii, S.G. (1957) 570167  
C.R.Acad.Sci.U.R.S.S., 115(3):494-6  
Zavisimost' koeffitsienta turbulentnosti  
ot parametrov morskikh voln (The  
dependence of the turbulence factor on  
the sea wave parameters)

M

Böhnecke, G. (1957) 570165  
Dtsch.hydrogr.Z., 10:33-8  
Die ozeanographischen Arbeiten im  
Internationalen Geophysikalischen Jahr  
(IGJ) (Oceanographic operations in  
the International Geophysical Year (IGY)

Programmes: mean sea level; long waves;  
deep sea circulation; multiple ship  
measurements; and polar front survey.

FAO:t1

M

Bolst, A.L. and 570168  
A.H. Whiteley (1957)  
Biol.Bull.Wood's Hole, 112(3):276-87  
Studies of the metabolism of phosphorus  
in the development of the sea urchin,  
Strongylocentrotus purpuratus

The quantity of phosphorus in the barium-  
soluble, alcohol-soluble fraction of the  
acid-soluble phosphate compounds of sea  
urchin embryos, Strongylocentrotus purpu-  
ratus (Simpson), was measured until the  
formation of the early pluteus stage.

FAO:glk

M

<p>Bolster, G.C. and J.P. Bridger (1957)  <u>Nature, Lond.</u>, 179:638          Nature of spawning area in herrings</p> <p>Spawn found in fish stomachs and with a grab. It was attached to flints. Maximum concentration found in an area two miles by four hundred yards wide, the long axis being in line with tidal movement.</p> <p>FAO:jae M</p>	<p>Bordovskii, O.K. (1957) 570172  <u>C R.Acad Sci.U.R.S.S.</u>, 116:443          Sostav organicheskogo veshchestva sovremennykh osadkov Beringova moria (The composition of organic matter in the recent sediments of the Bering Sea)</p> <p>Chemical analysis is carried out in view of determining the contents of organic carbon, nitrogen, humic and bituminous substances. Relation to granulometric composition is also studied.</p> <p>FAO:go M</p>
<p>Bondi, A., A. Spandorf and R. Calmi (1957) 570170  <u>Bamidgeh</u>, 9(1):13-8          The nutritive value of various feeds for carp</p> <p>Results of comparative analysis of feed and faeces of 3 specimens of carp in aquarium experiments are discussed.</p> <p>SJH:sjh F</p>	<p>Boroughs, H., S.J. Townsley, and R.W. Hiatt (1957) 570173  <u>Limnol.Oceanogr.</u>, 2(1):28-32          The metabolism of radionuclides by marine organisms. III. The uptake of calcium-45 in solution by marine fish</p> <p>The uptake of calcium-45 dissolved in sea water, by <u>Tilapia mossambica</u>, and the distribution of this element in the various tissues of the fish, were measured. These results are compared with those of a similar experiment with radiostrontium.</p> <p>HR:glk II</p>
<p>Bondy, P.K., G.V. Upton and G.E. Pickford (1957) 570171  <u>Nature, Lond.</u>, 179(4574):1354-5          Demonstration of cortisol in fish blood</p> <p>Demonstration, by paper chromatography, of a steroid in the plasma of <u>Cyprinus carpio</u> and <u>Pseudopleuronectes americanus</u>.</p> <p>GLK:glk MF</p>	<p>Borrel, A. (1957) 570174  <u>L'Institut des hautes études de Tunis</u>, 85 p.          Les pêches sur la côte septentrionale de Tunisie (Fisheries off the northern coast of Tunisia)</p> <p>Describes the general conditions of the fisheries, their evolution, and the different fisheries.</p> <p>FAO:hr M</p>

Boschetti, M.M. (1957) 570175  
Sanitalk, 5(2):21-5  
A study in the chemical control of aquatic  
vegetation

F

Bossolasco, M. and 570178  
I. Dagnino (1957)  
Geofis.pur.appl., 37:318-24  
Sulla turbolenza delle correnti marine  
nello stretto di Messina (On the  
turbulence of currents in the Strait of  
Messina)

M

Boschma, H. (1957) 570176  
Ann.Zool.,Agra., 2:(1):1-20  
Heterosaccus Indicus, sp.nov., a rhizo-  
cephalan parasite of the crab Portunus  
pelagicus (L.)

The new species differs from the  
previously described species of the  
genus in having the cavities of the  
right and left testes communicating  
with each other. Some peculiarities  
of the previously described species  
are noted.

:hr

M

Bossolasco, M. and 570179  
I. Dagnino (1957)  
Geofis.pur.appl., 38  
Sulle correnti costiere nel golfo di  
Genova (On the coastal currents in  
the Gulf of Genoa)

M

Bossolasco, M., A. Cavo 570177  
and I. Dagnino (1957)  
Geofis.pur.appl., 38  
Sulla genesi dei microsismi (On the  
genesis of microseisms)

M

Bourassa, R. (1957) 570180  
Actualités mar., 1:13-4  
Un inventaire de nos rivières à saumons  
(An inventory of our salmon rivers)

An account of the survey of some 77  
Atlantic salmon (Salmo salar) rivers  
with tabulation on their drainage area  
and condition.

FAO:glk

F



Bourlière, F. (1957) 570181  
In "The biology of ageing", by Yapp, W.B.  
and G.H. Bourne (Ed.), Symp.Inst.Biol.,  
(6):27-34  
Ageing and metabolism

Includes discussions of relations  
between growth rates and mortality in  
fishes, molluscs and crustacea with  
specific reference to Thymallus signifer,  
Gastorosteus aculeatus, Clupea pilchardus,  
Patella vulgata, Moina macrocopa and  
Daphnia magna.

GLK:sjh

MF

Bowers, A.R. (1957) 570184  
Rep.Mar.biol.Sta.Pt Erin, 69:18-20  
Age and size of Manx herring in 1956

Market sample analysis, Clupea harengus,  
15/6-21/9/56.

FAO:sjh

M

Boury, M. and J. Borde (1957) 570182  
Sci.Pêche, (51):9 p.  
Méthodes d'examen bactériologique de  
l'eau de mer et des coquillages. Essais  
comparatifs (Methods of  
bacteriological examination of the  
sea water and molluscs. Comparative  
analysis)

Gives the results of bacteria of  
molluscs investigations carried out  
during three years at the Fisheries  
Institute.

FAO:hr

M

Bowman, T.E. (1957) 570185  
Proc.U.S.nat.Mus., 107(3382):39-45  
A new species of Calanopia (Copepoda:  
Calanoida) from the Caribbean Sea

M

Bowers, A.B. (1957) 570183  
Nature, Lond., 179:926  
Nature of the spawning area in herrings

Points out that herring spawn has been  
taken by dredge, grab and a modified  
tow netting technique. See 1957, Nature,  
179:638.

FAO:jae

M

Bowman, T.E. (1957) 570186  
Proc.U.S.nat.Mus., 107(3378):7  
A new species of Mysidopsis (Crustacea:  
Mysidacea) from the southeastern coast  
of the United States

GLK

M

Boycott, B.B. (1957) 570187

New Sci., 2(47):12-3

An octopus lays eggs at London Zoo

Short illustrated review of reproduction behaviour and ecology of octopi, occurrence and egg-deposition in aquaria, occasioned by recent observations of this event in Octopus vulgaris. Hatching has yet to be observed.

FAO:sjh

M

Brannon, H.R. et al. (1957) 570190

Trans.Amer.geophys.Un., 38(5):643-50

Radiocarbon evidence on the dilution of atmospheric and oceanic carbon by carbon from fossil fuels

Estimations of the dilution of atmospheric carbon dioxide by carbon dioxide from fossil fuels, and the fractional part of the atmospheric carbon dioxide entering the ocean. Using these data, information is sought on mixing times in the ocean.

FAO:tl

M

Boyd, A.W. (1957)

570188

Brit.Birds, 50:253-63

Sewage farms as bird habitats.

Ecological notes on the various habitats afforded by sewage farms, and on the preferences shown by different species. (Includes a section on Nottingham Sewage Farm by Dr. R.J. Raines).

:jae

F

Brattström, H. (1957)

570191

Publ.biol.Sta., Bergen, 19:10 p.

Branchiocerianthus norvegicus n. sp. from the Hardangerfjord, western Norway

Description of a new hydroid.

GLK:tl

M

Bragg, N.A. (1957)

570189

Copeia, (1):36-9

Variation in colors and color patterns in tadpoles in Oklahoma

Tadpoles of most species tend genetically to have a characteristic coloration which may, however, be slightly or greatly modified by environmental influence.

HR:hr

F

Brebion, G., J. Chopin

570192

and F. Humbert (1957)

Chim.et Industr., 77:1110-6

Toxicity to fish (minnows) of some phenolic derivatives formed by the decomposition of lignin in paper pulp factories

F

Breder, C.M., Jr. (1957) 570193

Copeia, (2):132-5

A note on preliminary stages in the fossilization of fishes

Describes delayed decomposition of dead fish in aquaria, offers a tentative exploration and relates the observation to fossilization.

HR:wad

F

Bressau, S. (1957) 570194

Küste, (1):64-102

Abrasion, Transport, und Sedimentation in der Beltsee (Abrasion, transport and sedimentation in the Belt-Sea)

M

Bretschneider, C.L. (1957) 570195

Paper presented at the Thirty-Eighth

Annual Meeting, Washington, D.C.,

April 29 - May 2, 1957

Joint distribution of wave heights and lengths

M

Brett, J.R. (1957) 570196

In "The Physiology of Fishes". Vol. II. Behaviour. Edited by M.E. Brown, Academic Press Inc., Publishers, New York, pp. 121-54

The sense organs. The eye

FAO

MF

Bridges, W., J.W. Atz and 570197

E.R. Sanborn (1957)

New York, 62 p.

Guide and historical souvenir of Stage I of the New York Aquarium

MF

Briggs, J.C. and 570198

D.K. Caldwell (1957)

Bull.Fla.St.Mus., 2(4):43-51

Acanthurus randalli, a new surgeon fish from the Gulf of Mexico

Describes the species and analyses its relationships.

FAO:hr

M



British Weed Control 570199  
Council (1957)  
British Weed Control Council, London,  
163 pp.  
Weed control handbook, 1957

Includes short section (p. 86-7) on the control of aquatic weeds and algae; detailed tables of properties of herbicides, glossary of terms and a species index.

:sjh

F

Broch, H. (1957) 570202  
Nature, Lond., 179:1356  
The northern octocoral, *Paragorgia arborea* (L.), in sub-Antarctic waters

Establishes this as a bipolar species at present.

GLK:jac

M

Broad, A.C. (1957) 570200  
Biol.Bull., Wood's Hole, 112:144-70  
Larval development of *Palaemonetes pugio*  
Holthuis

Description of larval development of this sp., and its comparison with *Palaemonetes vulgaris* (Say). Variation in number and structure of larval intermolts, found in development of both spp., is mentioned.

FAO:efa

M

Broecker, W.S. (1957) 570203  
Paper presented at the Thirty-Eighth  
Annual Meeting, Washington, D.C.,  
April 29 - May 2, 1957  
Variations in the C<sup>14</sup>/C<sup>12</sup> ratio of Atlantic Ocean surface water

M

Broad, A.C. (1957) 570201  
Biol.Bull., Wood's Hole, 112:162-70  
The relationship between diet and larval  
development of *Palaemonetes*

Investigation of the qualitative food requirement and molting of *Palaemonetes pugio* and *P. vulgaris*. It was found that these larvae need food which includes animal tissue. The frequency of molting and the rate of development varied according to the quantity of food available.

FAO:tl

II

Broecker, W.S., R.D. Gerard 570204  
and B.C. Hoozen (1957)  
Paper presented at the Thirty-Eighth  
Annual Meeting, Washington, D.C.,  
April 29 - May 2, 1957  
Deep water circulation in the Atlantic Ocean

M

Brongersma-Sanders, M. (1957) 570205  
Verh.Akad.Wet.Amst., (b); 50(6)  
 On the desirability of a research into  
 certain phenomena in the region of  
 upwelling water along the coast of  
 South West Africa

M

Brown, M.E. (1957) 570208  
Academic Press, Inc., New York, 526 p.  
 The physiology of fishes, 2. Behavior

Consists of authoritative reviews of the  
 present state of knowledge of various  
 aspects of fish physiology. Gaps in  
 knowledge and possible fruitful lines  
 for further research are indicated.  
 Individual chapters by L.R. Aronson,  
 G.P. Baerends, J.R. Brett, H.O. Bull,  
 P. Doudoroff, D.L. Fox, M. Gordon,  
 E. Newton Harvey, A.D. Hasler,  
 E.G. Healey, F.R. Harden Jones,  
 R.D. Keynes, O. Lowenstein, J.M. Odiorne.

FAO:hr

MF

Brown, H.S., J. Bonner 570206  
 and J. Weir (1957)  
New York, Viking Press, 193 p.  
 The next hundred years: man's natural  
 and technological resources; a  
 discussion prepared by leaders of  
 American industry

General discussion of the prospects of man  
 being able to develop his technology of  
 resource exploitation at a rate to match the  
 rate of population increase, concluding  
 that this will depend on the speed with  
 which he develops his techniques of  
 exploiting renewable resources; includes  
 a brief reference to the possibilities  
 offered by the sea.

FAO:glk

M

Brown, S.G. (1957) 570209  
Nature Lond., 179(4573):1287  
 Migrations of humpback whales

A note on the studies of the movements  
 of the humpback whale (Megaptera  
novaeangliae) in New Zealand waters.

GLK:hr

M

Brown, M.E. (1957) 570207  
Academic Press, Inc., New York, 447 p.  
 The physiology of fishes, 1. Metabolism

Consists of authoritative reviews of the  
 present state of knowledge of various  
 aspects of fish physiology. Gaps in  
 knowledge and possible fruitful lines  
 for further research are indicated.  
 Individual chapters by F.E. J. Fry,  
 G.S. Carter, J.C. Mott, E.J.W. Barrington,  
 V.S. Black, J. Van Oosten, W.S. Hoar,  
 S. Smith, M.E. Brown, R.M. Love,  
 annotated in Curr.Bibliogr.Fish.Sci.,  
 1(5) which see.

FAO:hr

MF

Brown, W.C. and 570210  
 A.C. Alcalá (1957)  
Copeia, (1):39-41  
 Viability of lizard eggs exposed to sea  
 water

Eggs of Cosymbatus platyurus, Gohyra  
mutilata and Hemidactylus frenatus,  
 might feasibly survive for at least  
 11 days, eggs of Dasia smaragdina only  
 from 3 to 5 days.

MF

<p>Brunel, M.A. (1957) 570211  <u>Int.hydr.Rev.</u>, 34(2):131-7  Les systèmes de radiolocalisation dans  l'hydrographie française (Radio-  localisation systems in French hydro-  graphy)</p> <p>Description of equipment and operations.</p> <p>FAO:glk M</p>	<p>Bsharah, L. (1957) 570214  <u>Bull.Mar.Sci.Gulf Caribb.</u>, 7(3):201-51  Plankton of the Florida current. V.  Environmental conditions, standing crop,  seasonal and diurnal changes at a  station forty miles east of Miami</p> <p>This is a survey of the standing crop of  plankton in the Florida Current, its  vertical, seasonal and diurnal changes,  and of relevant environmental conditions.  The top 100 meters is considered to be  the euphotic zone. Details are given for  siphonophores, chaetognaths, copepods,  cuphausids, pteropods and young fish.</p> <p>FAO:glk M</p>
<p>Bruschek, E. (1957) 570212  <u>Z.Fisch.</u>, 5:289-94  Eine Versuchsanlage zur Beobachtung von  Fischen in fliessendem Wasser (An  experimental plant for the observation  of fish in running water)</p> <p>Description of an oval runway to observe  fish behaviour. The water is circulated  by a propeller placed in the runway.</p> <p>FAO:tl F</p>	<p>Buchanan, J.B. (1957) 570215  <u>Nature, Lond.</u>, 179(4560):634-5  Benthic fauna of the continental edge off  Accra, Ghana</p> <p>Short description of one epifaunal and  one infaunal community on muddy sand.  Both communities are identical with  those occurring in Western Mediterranean.</p> <p>GLK:tl M</p>
<p>Braun, A.F. (1957) 570213  <u>Sci.Amer.</u>, 197(5):50-7  Animals of the abyss</p> <p>Short account, with numerous illustrations  of the GALATHEA expedition.</p> <p>FAO:sjh M</p>	<p>Bucksch, R. (1957) 570216  <u>Öst.Wasserw.</u>, 9:75-7  Legal problems of international co-  operation in the protection of streams</p> <p>F</p>



<p>Budd, J. (1957) 570217  <u>Canad. Fish Cult.</u>, 20:25-8  Introduction of the hybrid between the eastern brook trout and lake trout into the Great Lakes</p> <p>Describes the first known introduction (1954) of <u>Salvelinus fontinalis</u> and <u>S. namaycush</u> into these waters (US and Canadian) and subsequent recoveries.</p> <p>FAO:wad F</p>	<p>Bull, H.O. (1957) 570220  In "The Physiology of Fishes". Vol.II. Behaviour. Edited by M.E. Brown, Academic Press Inc., Publishers, New York, pp. 211-28  Part I. Conditioned responses</p> <p>FAO MF</p>
<p>Bückmann, A. and 570218  G. Hempel (1957)  <u>Helgoländ.wiss.Meeresunters.</u>, 6(1):52-70  Untersuchungen an der Heringslarvenbevölkerung der Innenjade  (Investigations on the population of herring fry in the Jade estuary)</p> <p>Investigations of the larvae place of origin. Correlations between the weight and length, water temperature, and speed of growth with the number of vertebrae.</p> <p>SJH:tl M</p>	<p>Bullo, A. (1957) 570221  <u>Agricoltura d.Venezia</u>, 11:5-21  Nei territori vallivi del Basso Polesine, vallicoltura o agricoltura? (In the valleys of Low Polesine, fishculture or agriculture?)</p> <p>Discusses the difficulties and economic problems presented by the Ministry of Agriculture. Plans for transforming the saltwater ponds into agricultural fields.</p> <p>:glk F</p>
<p>Buedeler, W. (1957) 570219  <u>UNESCO</u>, 1957, 66 p.  L'année géophysique internationale  (The international geophysical year)</p> <p>A general illustrated account of the various projects, with short reference to oceanography in the chapter on the exploration of the earth.</p> <p>FAO:sjh M</p>	<p>Bumpus, D.F. (1957) 570222  <u>Spec.sci.Rep.U.S.Fish Wildl.Serv.</u>, (214):153 p.  Surface water temperature along Atlantic and Gulf coasts of the United States</p> <p>Tabulations of monthly and annual mean surface water temperatures recorded since 1878.</p> <p>FAO:glk M</p>

Burdick, G.E. et al. (1957) 570223  
N.Y. Fish Game J., 4(1):92-101  
Lethal oxygen concentrations for yellow perch

F

Burkenroad, M.D. (1957) 570224  
Ecology, 38:164-5  
Intensity of setting of starfish in Long Island Sound in relation to fluctuations of the stock of adult starfish and in the setting of oysters  
  
Discusses evidence on this relation in recent years.

FAO:sjh

M

Burkov, V.A. et al. (1957) 570225  
Trud.Inst.Okeanol., 24:5  
(Techniques of hydrographic work in the open sea). Ru

M

Burmister, C.A. (1957) 570226  
Int.hydr.Rev., 34(2):121-30  
L'électronique en hydrographie. I. Quelle est la profondeur de l'océan? (Electronics on hydrography. I. What is the depth of the ocean?)

Historical review with brief technical details of certain types of equipment.

FAO:glk

M

Burrows, R.E. (1957) 570227  
Progr.Fish.Cult., 19(2):75  
Acceleration of spawning of adult salmon

A brief report of experiments conducted and preliminary results obtained on the acceleration of spawning of Oncorhynchus nerka by exposure to periods of light.

FAO:efa

MF

Bursche, E.M. (1957) 570228  
Z.Fisch., 5:211-30  
Die Makrophytenvegetation thüringischer Teiche und ihre fischereiliche Bewertung (The macrophyte vegetation of Thuringian ponds and its evaluation from the fishery point of view)

Description of the floral composition of the vegetation in ponds.

FAO:tl

F

Burt, W.V. and J. Queen (1957) 570229

Science, 126:973-4

Tidal overmixing in estuaries

Discusses the processes of eddy diffusion due to tidal currents in the Coos Bay and river estuary in Oregon coast.

FAO:efa

MF

Busnita, Th. et al. (1957) 570232

Bul.Inst.Cerc.piscic.Roman., 16(2):5-19

Primele incercari de aclimatizare a coregonilor in apele R.P.R. (First notes on acclimatization of coregonids in Roumanian waters). Ru Fr

Reports results of transplanting from Poland and USSR, eggs of Coregonus albula and C. lavaretus maraenoides.

FAO:sjh

F

Busch (1957) 570230

Int.hydr.Rev., 34(2):59-63

Le "Radiolog-Atlas" appareil radio-électrique de détermination du point pour les lèves hydrographiques (Radiolog Atlas, a radioelectric apparatus for point determination in hydrographic surveys)

Account of the fundamental theory of the operation of this system and certain details concerning the system itself.

FAO:glk

M

Butler, T.H. (1957) 570233

Progr.Rep.Pacif.Cst Stas, (109):16-9

The tagging of the commercial crab in the Queen Charlotte Islands region.

Positions and numbers of tagged Cancer magister released and returned, 1952-56. Movements; growth; tag efficiency.

GLK:sjh

M

Busch, C.W. (1957) 570231

Int.hydr.Rev., 34(1):65-7

Appareil de mesure radioélectrique pour la détermination de la position dans les lèves hydrographiques au moyen de l'écho-sondeur (Radioelectric apparatus to determine the position of hydrographic soundings by means of the echo-sounder)

Gives a brief summary of the development and principles of operation of a new aid to hydrographic work.

FAO:hr

M

Buys, M.E.L. (1957) 570234

Invest.Rep.Div.Fish.S.Afr., (27):114 p.

The South African pilchard (Sardinops ocellata) - Temperature variations in the upper 50 metres in the St. Helena Bay area, September 1950 - August 1954

Account of method to establish periodic, and therefore predictable, cycles of temperature. Analysis of charts showing the temperature at the surface and at 20 metres, and the mean integral temperature of the 0-50 metres layer on an annual, seasonal and monthly basis. Variation of these temperatures in time graphically represented and analysed by month and by season using data collected on monthly survey cruises.

FAO:sjh

M



Cagle, F.R. (1957) 570235  
In Vertebrates of the United States  
 by W.F. Blair et al. McGraw-Hill Book  
 Company, Inc., pp. 273-358  
 Part IV. Reptiles

Caldwell, D.K. and 570238  
 J.C. Briggs (1957)  
Bull.Fla St.Mus., 2(1):11 p.  
 Range extensions of western North Atlantic  
 fishes with notes on some solos of the  
 genus Gymnachirus

Contains range extensions of 15 species

FAO

F

FAO:hr

M

Cagniard, L. (1957) 570236  
Ann.Géophys., 13(2)  
 Sur la théorie de la mesure électroma-  
 gnétique des courants marins (On the  
 theory of electromagnetic measurements  
 of currents)

California. Laws, statutes, 570239  
 etc. (1957).  
St.Paul, West Pub.Co., 374 p.  
 West's California fish and game code,  
 1957, Stats. 1947, c. 456, as amended at  
 the 1957 regular session of the  
 legislature

M

MF

Cairns, J., Jr. (1957) 570237  
Industr.Wastes, 2:1-5  
 Environment and time in fish toxicity  
  
 Discusses the toxicity of industrial  
 waste waters to fish and factors to  
 be taken into consideration when  
 planning bio-assay tests.

California University. Scripps 570240  
 Institution of Oceanography  
 (1957)  
SIO Reference 57-10, 45 p.  
 Physical and chemical data, CCOFI cruise  
 5209 (MIR 41) 4-19 September 1952

swpa

MF

M

California University. Scripps 570241  
Institution of Oceanography  
(1957)

SIO Reference 57-13, 43 p.  
Physical and chemical data, CCOFI cruise  
5210 (MIR 42) 8-22 October 1952

M

Callaway, R.J. (1957) 570244  
Spec.sci.Rep.U.S.Fish Wildl.Serv., (230)  
Oceanographic and meteorological  
observations in the northeast and  
central North Pacific, July - December  
1956

M

California University. Scripps 570242  
Institution of Oceanography  
(1957)

SIO Reference 57-22, 46 p.  
Physical and chemical data, CCOFI cruise  
5211 (MIR 43) 6-21 November 1952

M

Cameron, F.E. (1957) 570245  
J.Fish.Res.Bd Canada, 14(2):165-202  
Some factors influencing the distribution  
of pelagic copepods in the Queen  
Charlotte Islands area

Species taken are listed and discussed  
with reference to the role of temperature  
and distribution as determinants of  
distribution. Water circulation patterns  
are inferred from the plankton  
collections.

GLK:glk

M

Callahan, C.C. (1957) 570243  
Columbus, Ohio, Dep. of Natural  
Resources, Division of Water, 34 p.  
Principles of water rights law in  
Ohio

F

Campana-Rouget, Y. (1957) 570246  
Bull.Inst.franç.Afr.noire, A.Sci.nat.,  
19:417-73

Parasites de poissons de mer ouest-  
africains récoltés par J. Cadenat  
(Parasites to west African marine fishes,  
collected by J. Cadenat)

An account of Nemertean collected;  
general account of the morphology of the  
sub-family Cuculaninae, followed by a  
discussion of the validity of different  
genera and certain species and a  
classification of the parasites according  
to host.

FAO:glk

MF

<p>Campbell, R.N. (1957) 570247  <u>Freshw.Salm.Fish.Res.Ser.</u>, 14:7 p.  The effect of flooding on the growth rate of brown trout in Loch Tummel</p> <p>Scale studies of <u>Salmo trutta</u> show changes in growth associated with change in water level of lake. Analysis of age and size at migration from stream to lake and relation of this to growth rate.</p> <p>GLK:sjh F</p>	<p>Canada. Fisheries Research 570250  Board (1957)  <u>Ottawa</u>, 195 p.  Annual report, 1956-1957, for the fiscal year ending March 31, 1957</p> <p>General account of the work of the Board in the period under review followed by reports on the work of each of the biological stations, the work in oceanography, and the work of each of the technological stations; list of publications and reports, and of scientific staff. Something like this perhaps for model; the report generally follows this pattern.</p> <p>GLK:glk MF</p>
<p>Canada. Fisheries Research 570248  Board (1957)  <u>Circ.biol.Sta.Nanaimo</u>, 45(1)  Prospects for the 1957/58 herring fishing season</p> <p>M</p>	<p>Candeias, A. (1957) 570251  <u>Notas estud.Inst.Biol.Marit.</u>, 16:1-12  Tremátodes em <u>Acartia clausi</u> Giesb.  (Trematodes in <u>Acartia clausi</u> Giesb.)</p> <p>The occurrence of metacercariae of a form of Trematode Hemiurid, presumably <u>Hemiurus communis</u> Odhner, in <u>Acartia clausi</u> Giesb. from the north coast of Portugal.</p> <p>FAO:hr M</p>
<p>Canada. Fisheries Research 570249  Board (1957)  <u>Ottawa</u>, 182 p.  Annual report of the Fisheries Research Board of Canada - 1955. En Fr</p> <p>Description of activities and principal results in fisheries biological and technological research and oceanographical investigations.</p> <p>GLK:tl MF</p>	<p>Capurro, S.L. and 570252  M. Rosenmann (1957)  <u>Invest.zool.chil.</u>, 3:111-3  Formación de anticuerpos en <u>Cricetus auratus</u> "golden hamster" (Formation of antibodies in <u>Cricetus auratus</u> "golden hamster")</p> <p>A study of the sensitivity of the golden hamster, using <u>Bufo spinulosus</u> serum as antigen.</p> <p>FiB:hr F</p>



<p>Caraiman, Gh., (1957) 570253  <u>Bul.Inst.Cerc.piscic.Roman.</u>, 16(2):53-60.  Observatiuni asupra ritmului de dezvoltare a puietului de crap de cultura din iazul Tataraseni - Regiunea Succava (Observations on the growth rhythm of small cultured carp in Tataraseni pond. - Succava Region).  Ru Fr</p> <p>Growth of <u>Cyprinus carpio</u> during 1954.</p>		<p>Carlin, B. and 570256  K.B. Johansson (1957)  <u>Vandringsfisk.Medd.</u>, (5), 4 p.  Blanklaxmärkning på Norrbottenskusten (Tagging of eel on the coast of Norrbotten (N. Sweden))</p> <p>Some data on the recovery of tagged eel.</p>	
<p>FAO:sjh F</p>		<p>TL:tl M</p>	
<p>Carlander, K.D. and 570254  R.B. Moorman (1957)  <u>Progr.Fish Cult.</u>, 19(2):92-4  Some experiments in changing population balance in farm ponds</p> <p>Discusses minnow-seine technique as an indicator of pond success, and trials of supplemental stocking, thinning with a seine and rotenone treatment to improve population balance in Iowa, USA, ponds.</p>		<p>Carlisle, D.B. (1957) 570257  <u>Sci.News, Harmondsworth.</u>, 44:81-96  Male or female?</p> <p>A discussion of the sexual biology of hermaphrodite prawns <u>Pandalus</u>, <u>Calocaris</u>, <u>Hippolyte</u> and <u>Lysmata seticaudata</u>, sandhoppers and the worm <u>Bonellia</u>.</p>	
<p>WAD:wad F</p>		<p>GLK:hr M</p>	
<p>Carlin, B. (1957) 570255  <u>Vandringsfisk.Medd.</u>, (8), 3 p.  Iakttagelser över tillväxten hos märkta laxungar vid tråguppfödning (Observations on the growth of tagged salmon smolt in hatchery)</p> <p>Investigation on the competition for food by different size groups of salmon smolt and its influence on the growth.</p>		<p>Carlsson, G. (1957) 570258  <u>Vandringsfisk.Medd.</u>, 3:5 p.  Iakttagelser vid laxlek i försöksakvariet i Hölle 1956 (Observations on salmon spawning in aquarium in Hölle 1956)</p> <p>Observations on spawning behaviour of salmon in aquarium.</p>	
<p>TL:tl F</p>		<p>TL:tl F</p>	

<p>Carpenter, J.H. (1957) 570259  <u>Limnol.Oceanogr.</u>, 2:271-80  The determination of calcium in natural waters</p> <p>Photometric weight titration with othylonediaminetetraacetate ion in the presence of ammonium purpurate is employed following isolation of the calcium by ion-exchange chromatography. Calcium is separated from magnesium and strontium by the use of acetyl-acetone as a complexing elutant. Samples of sea water from the Bahamas region were examined by this procedure.</p>	<p>Carthy, J.D. (1957) 570262  <u>Discovery</u>, 18(3):105-9  Polarised light and animals</p> <p>Discusses the polarisation of solar light by particles in the atmosphere and in water and the reaction of sandhopper (<u>Talitrus saltator</u>), king crab and other organisms to changes in the pattern of polarisation.</p>
<p>HR:tl M</p>	<p>FAO:glk M</p>
<p>Carpenter, J.H. and 570260  D.G. Cargo (1957)  <u>Tech.Rep.Chesapeake</u>, (13):22 p.  Oxygen requirement and mortality of the blue crab in the Chesapeake Bay</p> <p>Experiments on the lower limit of oxygen concentration for the existence of blue crab (<u>Callinectes sapidus</u>). Results of investigations on the cause of the abnormal local mortality of blue crab in Chesapeake Bay.</p>	<p>Cascudo, L. da C. (1957) 570263  <u>Docum.Vida rur.</u>, (11), 60 p.  Jangadeiros (Raft fishermen)</p>
<p>FAO :tl M</p>	<p>FAO M</p>
<p>Carr, A. and 570261  J.W. Crenshaw, Jr. (1957)  <u>Bull.Fla.St.Mus.</u>, 2(3):25-42  A taxonomic reappraisal of the turtle <u>Pseudemys alabamensis</u> Baur</p> <p>A study of intergroup relationships of the genus <u>Pseudemys</u> in the southern United States.</p>	<p>Chacko, P.I. and 570264  S. George (1957)  <u>Rep.Madras Fish.Statist.</u>, (43):68 p.  Fish statistics of east coast of Madras State for 1950-51</p>
<p>F.O hr F</p>	<p>M</p>

<p>Chacko, P.I. and S. George (1957)  <u>Rep. Madras Fish. Statist.</u>, (42):141 p.  Fish statistics of west coast of Madras State for 1950-51</p> <p>570265</p> <p>M</p>	<p>Chapelle, H.I., and M.N. Özerdem (1957)  <u>Balık Balıkçılık</u>, 5(1):14-8  Türk balıkçı tekneleri (On the Turkish fishing boats)</p> <p>570268</p> <p>SJH:sjh</p> <p>M</p> <p>An illustrated article giving the details of boat types and construction</p>
<p>Chang, C.Y. (1957)  <u>Science</u>, 126:121-2  Thyroxine effect on melanophore contraction in <u>Xenopus laevis</u></p> <p>570266</p> <p>FAO:hr</p> <p>F</p> <p>An investigation of the role of thyroxine in the color control mechanisms of <u>Xenopus laevis</u>.</p>	<p>Chapman, D.G. (1957)  <u>Biometrics</u>, 13:548-9  Problems of estimation of wildlife mortality rates</p> <p>570269</p> <p>SJH:sjh</p> <p>MF</p> <p>Abstract of paper presented at meeting of Biometric Society and American Institute of Biological Sciences, 27-8/8/57, dealing with comparison of methods involving tagging on age distribution estimation. Sources of bias in these; new formula for case where largest source of mortality is human predation.</p>
<p>Chapelle, H.I. and M.N. Özerdem (1957)  <u>Balık Balıkçılık</u>, 5(4):1-8  Türk balıkçı teknelerinin uygun makina güçleri (On the proper motor-powers of the Turkish fishing boats)</p> <p>570267</p> <p>SJH:efa</p> <p>M</p> <p>A brief review of power-hull relation, with some suggestions to improve the designs of present gir-gir seiners. Incl. plans for seiners on the evolutionary stage.</p>	<p>Chapman, D.G. (1957)  <u>Progr. Fish. Cult.</u>, 19:182-4  An improved portable tattooing device</p> <p>570270</p> <p>WAD:wad</p> <p>F</p> <p>Detailed description of a machine and the dyes used to mark juvenile <u>Salmo gairdneri</u> in migrant studies.</p>



Chapman, D.W. (1957) 570271  
Progr.Fish Cult., 19(2):95-6  
Use of latex injections to mark juvenile  
steelhead  
  
Technique described using Salmo gairdneri.

WAD:wad

F

Chapman, V.J. (1957) 570272  
Bot.Rev., 23(5):320-50  
Marine algal ecology

Review of the work done in marine algal  
ecology by regions and by subject  
matter (environmental factors, autecology  
and recolonization, sublittoral surveys,  
geographical distribution and nomenclature)  
Extensive list of literature.

FAO:t1

M

Chapman, V.J. et al. (1957) 570273  
Trans.roy.Soc.N.Z., 84(4):695-747  
Check list of the fresh-water algae of  
New Zealand

FAO

F

Charpy, B. (1957) 570274  
Centre Technique Forestier Tropical,  
Nogent-sur-Marne, 24 p.  
Tilapia macrochir et Tilapia melano-  
pleura - Leur élevage en pisciculture  
(Tilapia macrochir and Tilapia melano-  
pleura - Their rearing in fishculture)

Illustrated review of biology of these  
spp., techniques of culture, and methods  
of popularizing them. With bibliography.

FiB:sjh

F

Chator, E.H. and 570275  
H. Jones (1957)  
J.Ecol., 45:157-67  
Some observations on Spartina townsendii  
H. and J. groves in the Dovey estuary

A quadrat survey of a Welsh estuary with  
discussion of significance of the species  
as a pioneer and an invader of other  
vegetation.

FAO:sjh

MF

Chatterjee, S.K. (1957) 570276  
Electro-Technol., 1:81-9  
Behaviour of sea water and its constitu-  
ents at ultrahigh frequencies

II

Chaudhuri, H. and 570277  
 K.H. Alikunhi (1957)  
Curr.Sci., 26(12):381-2  
 Observations on the spawning in Indian  
 carps by hormone injection

Preliminary announcement of methods and  
 results.

FAO:glk

F

Chesapeake Bay Institute. The 570280  
 Johns Hopkins University (1957)  
Data Rep., Chesapeake, (29), 29 p.  
 Broad creek cruise - I 12 July - 14 July  
 1954 - II 20 July - 22 July 1954

Tabulated temperature salinity and  
 current data.

FAO:t1

M

Chavin, W. (1957) 570278  
J.exp.Zool., 133:259-79  
 Thyroid distribution and function in the  
 goldfish Carassius auratus

Chesapeake Bay Institute. The 570281  
 Johns Hopkins University (1957)  
Data Rep., Chesapeake, (30), 39 p.  
 York river cruise - 29 July - 1 August  
 1954

Tabulated data on temperature, salinity,  
 currents, wind, weather and air  
 temperature.

F

FAO:t1

M

Cherbonnier, G. (1957) 570279  
Vie et Milieu, 8(2):200-4  
 Une ophiure nouvelle de Méditerranée:  
Amphiura apicula nov. sp. (A new  
 ophiuroid of the Mediterranean: Amphiura  
apicula nov. sp.)

A taxonomic description of the species.

Chevalier, R. (1957) 570282  
France Pêche, 2(10):25-7  
 La langouste verte: Sa pêche par les  
 Douarnonistes (The green lobster.  
 Fishing by Douarnenez fishermen)

Brief note on fishing grounds and seasons.  
 Types of boats, live box, crew, fish  
 gear and the general pattern of opera-  
 tions.

FAO:hr

M

FAO:glk

M

Chew, F. (1957) 570283  
 Paper presented at the Thirty-Eighth  
Annual Meeting, Washington, D.C.,  
April 29 - May 2, 1957  
 The hydrography of the Florida Gulf  
 coast water

M

Chickering, A.M. (1957) 570286  
Bull.Mus.comp.Zool.Harv., 116(5):301-4  
 The genus Tetragnatha (Araneae, Argio-  
 pidae) in Panama

F

Chew, F. and L.P. Wagner (1957) 570284  
Mar.Lab.Univ.Miami, mimeo, 57-9:128  
Tropical Oceanography - Semi-annual  
 report of investigation between the  
 period of 15 November 1955 to 15 May  
 1956

Summary of the oceanographic work off  
 Florida from 15 Nov. 1955 to 15 Nov.  
 1956. Analysis of the fluctuations of  
 Florida current; seasonal temperature  
 pattern with BT data. Oceanographic  
 data given in graphic and tabular form.

FAO:tl

M

Chimits, P. (1957) 570287  
Fish.Bull.F.A.O., 10(4):211-5  
Tilapia in ancient Egypt

Study of inscriptions, bas reliefs and  
 writing of Herodotus shows that  
 Egyptians had priority in development  
 of culture of fish in ponds, especially  
 of T. nilotica. Catches in Nile also  
 included Lates niloticus, Synodontis  
bentesoda, eels, mormyre, tetraodon  
 and barbel. Ill.

SJH:sjh

F

Chew, F., L.P. Wagner 570285  
 and R.C. Work (1957)  
Rep.Univ.Miami Mar.Lab., (57-21)  
 Heat transport of the Florida current

Notes on the methods used for  
 computation and results of the  
 computations (tabulated and graphical)  
 for heat and mass transport during  
 different seasons.

FiB:tl

M

Chittleborough, R.G. (1957) 570288  
 Comments upon memorandum concerning  
 southern stocks of humpback whales.  
 Submitted by members of the Norwegian  
 Whale Research Institute to the  
 Scientific Sub-Committee of the  
 International Whaling Commission in  
 March, 1957. Mimeo, 3 p.

A critical review of the statements  
 made on the status of the stocks of  
Megaptera nodosa in the southern  
 hemisphere.

FiB:hr

M



Chittleborough, R.G. (1957) 570289  
Fish. News Lett. Aust., 16(7):11,21  
Australian whale marking

A brief review of whale marking operations giving the number of hump-back whales (Megaptera nodosa) marked and recovered since 1949 on the eastern and western Australian coasts. The limitations of the Discovery type of mark are discussed.

GLK:hr

M

Cholnoky, B.J. (1957) 570292  
Bot. Notiser, 110(3):325-62  
Über die Diatomeenflora einiger Gewässer in den Magalies-Bergen nahe Rustenburg (Transvaal) (On the diatom flora of some (fresh) waters in the Magalies mountains near Rustenburg (Transvaal))

Description of the associations of diatom in different localities with notes on the environmental conditions. Lists of diatoms with taxonomic descriptions and plates with figures are appended.

FAO:tl

F

Chittleborough, R.G. (1957) 570290  
Fish. News Lett. Aust., 16(6):5  
The breeding cycle of the female hump-back

Description of the female reproductive cycle of Megaptera nodosa.

GLK:hr

M

Chowdhury, S.H. (1957) 570293  
Agric. Pakist., 8(2):138-53  
An investigation of the Karnaphuli Paper Mill effluents and its detrimental effects on fish and other aquatic life of the river

Contains the results of a preliminary survey and investigation.

FAO:hr

F

Chiu, S.Y. (1957) 570291  
Acta zool. sinica, 9(1):85-100  
Preliminary notes on the Ctenophores of the South China Sea

Contains analytical keys for the species of Pleurobrachia and Beroë of the coastal waters of Kwangtung Province where P. globosa, B. cucumis and Ocyropsis crystallina were found in abundance. The process of digestion, the morphology of the stomodaeal pouches and locomotion of P. globosa are described.

FAO:hr

M

Christensen, A.M. (1957) 570294  
Limnol. Oceanogr., 2:180-97  
The feeding behaviour of the seastar Evasterias troschelii Stimpson

Study in an aquarium of the methods of attachment to a clam, the magnitude of the forces needed to open the clam and the time required for different feeding procedures.

HR:hr

M

Christomanos, A.A. (1957) 570295  
Sea Frontiers, 3:94-7  
A Greek marine station

Description of the Marine Biochemistry  
Laboratory, St. George, Limni, and its  
activities.

HR:tl

M

Churchill, W. (1957) 570296  
J.Wildlife Mgmt, 21:182-8  
Conclusions from a ten-year creel census  
on a lake with no angling restrictions

Studies on a warm-water Wisconsin lake,  
in which a complete record of the  
harvest and other data was collected  
under a permit system, and where no  
evidence of depletion was apparent  
after 10 years of unrestricted hook  
and line fishing.

WAD:wad

F

Clark, H.F., P.W. Kabler 570297  
and E.E. Geldreich (1957)  
Wat.and Sewage Wks, 104:385-7  
Advantages and limitations of the  
membrane filter procedure

MF

Clarke, G.L. and 570298  
R.H. Backus (1957)  
Wood's Hole Oceanogr.Instn, Ref.57-15, 14 p  
Measurements of light penetration in  
relation to vertical migration and  
records of luminescence of deep-sea  
animals

M

Clarke, R. and 570299  
S.G. Brown (1957)  
Norsk Hvalfangsttid., 46:513-7  
International co-operation in Antarctic  
whale marking from 1945 to 1957

Account on the tagging programmes 1945-  
1957.

FAO:tl

M

Cleland, K.W. (1957) 570300  
Aust.J.exp.Biol.med.Sci., 29(1):35-45  
The enzymatic architecture of the  
unfertilized oyster egg

Methods are described for the centri-  
fugal separation of the following  
granules from oyster egg homogenates:  
P. granules (protein yolk), M. granules  
(mitochondria), S. granules (microsomes),  
and L. granules (lipide yolk or Golgi  
apparatus). Nucleic acid content was  
measured and presence and distribution of  
various enzymes was determined.

FAO:glk

M

Clemens, H.B. (1957) 570301  
Calif. Fish Game, 43:299-307  
Fishes collected in the tropical eastern Pacific, 1954

Describes methods of capture, gives map and annotated list of specimens and stations.

SJH:sjh

M

Glench, W.J. (1957) 570304  
Breviora, (76):4 p.  
Two new land and freshwater molluscs from New Guinea

F

Clemens, H.P. and 570302  
K.E. Sneed (1957)  
Spec. sci. Rep. U.S. Fish Wildl. Serv.,  
(219):11 p.  
The spawning behaviour of the channel catfish Ictalurus punctatus

Experiments with the use of pituitary extract injections in analysis of pre-spawning behaviour of the spawning act and post-spawning behaviour.

GLK:glk

F

Glench, W.J. (1957) 570305  
Bull. Mus. comp. Zool. Harv., 116:121-69  
A catalogue of the Cerionidae (Mollusca-Pulmonata)

F

Clements, M. (1957) 570303  
Bull. Inst. oceanogr. Monaco, 1091:1-9  
The proteolytic activity of the thyroid and other tissues of the dogfish, Scyliorhinus (Scyllium) canicula

Reports on experiments which demonstrated the presence of a proteolytic enzyme of the catheptic type in the crude glycerol extracts of the thyroid of the species.

FAO:hr

M

Coates, J.A. et al. (1957) 570306  
Fish. Res. Pap. Wash. Dep. Fish., 2(1):67-72  
Brine shrimp nauplii (Artemia gracilis) as food for juvenile pink salmon

Tests on growth and mortality of Oncorhynchus gorbuscha in hatchery; comparison with normal food (Salmon viscera and beef liver)

FAO:sjh

MF



<p>Cockcroft, J. (1957) 570307  <u>Nature, Lond.</u>, 180:64-7  Atomic energy and its biological implications</p> <p>Summary of the studies of physiological effects and influences of radioactive contaminations on animals and especially on men; and the establishment of permissible level of exposure.</p> <p>GLK:tl MF M</p>	<p>Colarusso, A.L. (1957) 570310  <u>U.S.P.</u> 2,785,136  Briquettes for desalting sea water</p>
<p>Cocking, A.W. (1957) 570308  <u>Nature, Lond.</u>, 180:661-2  Relation between the ultimate upper lethal temperature and the temperature-range for good health in the roach (<u>Rutilus rutilus</u>)</p> <p>Roach maintain condition at 26°C, die after a few weeks at 30°C, and die within a week at 32°C. A gradual rise in temperature has deleterious effects above 30°C. The ultimate upper lethal temperature has little relation with range for health and breeding, and fish may disappear from water below the u.l.t. Criteria are suggested by which the thermal relationships may be compared.</p> <p>GLK:jae F FAO:sjh M</p>	<p>Cole, H. (1957) 570311  <u>New Sci.</u>, 2(49):27-8  The economics of corrosion</p> <p>Brief review of the problem on the occasion of a recent display in London of new anti-corrosion methods and equipment. Includes remarks on ship corrosion and protection.</p>
<p>Cohen, S.B. (1957) 570309  <u>Geogr.Rev.</u> 47,1:66-85  Israel's fishing industry</p> <p>A survey of Israel's sea and inland fisheries.</p> <p>GLK:tl MF FAO:efa M</p>	<p>Collier, A. (1957) 570312  <u>Spec.sci.Rep.U.S.Fish Wildl.Serv.</u>, (199):11 p.  Gulf-II semiautomatic plankton sampler for inboard use</p> <p>Description of sampler for quantitative work, with notes on operation.</p>

Collins, V.G. (1957) 570313  
J.gen.Microbiol., (Symp. on plankton),  
16:268-72

Planktonic bacteria

Discusses incidence, stratification and relation with other plankters of auto- and allochthonous bacteria in Windermere, Esthwaite and other English lakes and describes culture experiments with different nutrients.

FiB:tjj

F

Comar, C.L. (Ed.) (1957) 570316  
Publ.Amer.Ass.Advanc.Sci., (49):450 p.  
Atomic energy and agriculture

Contains numerous articles by different authors on the use of isotopes with brief descriptions of techniques and results in the field of agricultural research, with special emphasize on research in plant and animal physiology.

:tl

MF

Colman, J.S. (1957) 570314  
Liverpool University Press, 39 p.  
Annual report for 1956 (No. 69) of the Marine Biological Station at Port Erin, Isle of Man

Director's report on staff; buildings, equipment, boats and gear; work done (fish and fisheries, invertebrates and plankton, botany, hydrography). Programme for 1957; meetings attended by staff, visiting research workers; student classes held; hatchery and aquarium; publications. Includes papers by Bowers, A.B., Smith, W.C., Slinn, D.J., and Ranade, H.R. and Colman, J.S., which see.

FAO:sjh

M

Combs, B.D. and 570317  
R.E. Burrows (1957)  
Progr.Fish Cult., 19(1):3-6  
Threshold temperatures for the normal development of Chinook salmon eggs

Describes results of constant experiments with eggs of Oncorhynchus tshawytscha and variable temperature experiments with O. tshawytscha and O. gorbuscha.

WAD:wad

MF

Colowick, S.P. and 570315  
N.O. Kaplan (Ed.) (1957)  
Academic Press Inc., New York, 980 p.  
Methods in enzymology - Vol. IV. Special techniques

Comfort, A. (1957) 570318  
In "The biology of ageing" by Yapp, W.B. and G.H. Bourne (Ed.), Symp.Inst.Biol., (6):23-5  
Ageing in animals

Short summary of knowledge of survival curves of animals, including fish.  
See 571827.

MF

GLK:sjh

MF

Comita, G.W. and 570319  
J.J. Comita (1957)

Limnol.Oceanogr., 2:321-32

The internal distribution patterns of a calanoid copepod population, and a description of a modified Clarke-Bumpus plankton sampler

A modified Clark-Bumpus plankton sampler was constructed so that the volume of water filtered could be pre-set, and the behaviour of this sampler was studied using a number 20 net.

HR:tl

M

Concha, B.J. and 570322  
F.F. Vargas (1957)

Invest.zool.chil., 3:96-105

Actividad eléctrica del corazón del teleosteo Sicyases sanguineus (Electric activity of the heart in the teleostean S. sanguineus)

The cardiac electric activity of the common ching-fish is compared with similar activity of the human heart and of the hearts of crustaceans and mammals. Correlation between the time of different spaces and the body weight were compared with that predicted by the theory of biological similarities.

FiB:hr

MF

Conant, R. (1957) 570320  
Copeia, (2):152-3

The eastern mud salamander, Pseudotriton montanus montanus: A new state record for New Jersey

Comments briefly upon the distribution of this sp. States that the sp. is to be added to herpetofauna of this district.

HR:efa

F

Concha, B.J. and 570323  
F.F. Vargas (1957)

Invest.zool.chil., 3:122-7

Potenciales eléctricos y acción de farmacos en el corazón del crustaceo Aegla laevis (Decapoda, Anomura) (Electrical potentials and action of drugs in the heart of the crustacean A. laevis)

Gives the results of a study of electric activities in the heart of the species.

FiB:hr

M

Concha, B.J. (1957) 570321

Invest.zool.chil., 3:106-10

Acomodación en corazón de sapo, Calyptocephalus gayi (Accommodation in the heart of the frog, Calyptocephalus gayi)

Gives the results of a study of responses of the frog's heart to the stimulation with exponential rising currents.

FiB:hr

F

Conference on Co-ordination of 570324  
Fisheries Regulation between  
Canada and the United States (1957)  
Seattle, Wash., 15 p.  
Summary of proceedings

M



Connell, R. and 570325  
 A.H. Corner (1957)  
Canad.J.Zool., 35:525-33  
Polymorphus paradoxus Sp. nov. (Acantho-  
cephala) parasitizing beavers and  
 muskrats in Alberta, Canada

A new species is described from Castor  
canadensis and Ondatra zibethica from  
 a lake in Elk Island National Park.  
 A species of amphipod in the lake was  
 heavily infected with larval Acantho-  
cephala, although the possible relation-  
 ship of this infection to that in the  
 hosts has not yet been determined.

FAO:hr

F

Conseil Supérieur de la 570328  
 Pêche (1957)  
 Paris, 59 p.  
 Bulletin officiel d'information No. 27

Reviews the various activities of the  
 Fisheries Council including technical  
 activities, regulations and law  
 enforcement.

MF

Conseil Permanent International 570326  
 pour l'Exploration de la  
 Mer (1957)  
Statist.News Lett.Cons.int.Explor.Mer,  
 (1), 22 p.  
 Herring - North Sea 1955

1st of a new mimeograph series to give  
 recent statistics on catches and catch  
 per unit effort by months, areas (1/2  
 degree rectangles), and type of vessel,  
 for each country.

SJH:sjh

M

Convengao Internacional de 570329  
 Pescarias (1957)  
Bol.Pesca, 11(54):63-103  
 Relatório da subcomissão "ad hoc" na  
 quarta reunião da Comissão Permanente -  
 setembro de 1955 (Report of the  
 "ad hoc" subcommission at the fourth  
 meeting of the Permanent Commission -  
 September, 1955)

Portuguese translation of the report.

FAO:hr

M

Conseil Supérieur de la 570327  
 Pêche (1957)  
 Paris  
 Bulletin officiel d'information No. 28

A report of the administrative, judicial  
 and technical activities of the Council.

FAO:hr

F

Cooke, C.W. (1957) 570330  
Proc.U.S.nat.Mus., 107(3379), 12 p.  
Rhynobrissus cuncus, a new echinoid from  
 North Carolina

M

Cooper, R.O. (1957) 570331  
Progr.Fish Cult., 19:190-2  
Aerial fish distribution in a Montana  
lake

Describes methods used to transport  
Salmo gairdneri and plant them by free  
fall.

WAD:wad F

Cope, O.B. (1957) 570332  
Spec.sci.Rep.U.S.Fish Wildl.Serv.,  
(208):74-84

Races of cutthroat trout in Yellowstone  
Lake

Contribution to written symposium on  
sub-population of fishes (581145).  
Study of Salmo clarki lewisi (Girard)  
populations.

FAO:sjh F

Cope, O.B. and 570333  
D.W. Slater (1957)  
Res.Rep.U.S.Fish.Serv., (47):22 p.  
Role of Coleman Hatchery in maintaining  
a king salmon run

Studies were inaugurated at Coleman  
Hatchery, California, to determine how  
many of the fish (Oncorhynchus  
tshawytscha) entering the valuable sport  
and commercial salmon fisheries of  
California had originally been released  
from the hatchery, and which was the  
better practice: to release immature  
salmon from the hatchery in the spring  
or to release them in the fall.

FAO:glk F

Corbeil, E. (1957) 570334  
Actualités mar., 1:7-10  
Recherches (Research)

Notes on research work in marine and  
fresh waters.

FAO:glk MF

Corlett, E.C.B. (1957) 570335  
New Sci., 2(49):33  
Transom-stern trawlers

Correspondence on 571940, pointing  
out that trawlers with this stern type  
have already been in service for some  
months.

FAO:sjh M

Corner, E.D.S. and 570336  
F.H. Rigler (1957)  
J.Mar.biol.Ass.U.K., 36:449-58  
The loss of mercury from stored sea-  
water solutions of mercuric chloride

A quantitative and qualitative study of the  
loss of mercury from sea water by means  
of the chloroform-dithizone procedure and  
by the use of radioactive mercury (<sup>203</sup>Hg).  
Demonstrates the considerable importance  
of bacteria as a factor in the process.

FAO:glk M

Costlow, J.D., Jr. and 570337  
C.G. Bookhout (1957)  
Biol.Bull.Wood's Hole, 112(3):313-24  
Larval development of *Balanus cburneus*  
in the laboratory

Morphological description of different  
naupliar stages with data on their  
duration, reared in segregated and in  
mass culture in the laboratory.

FAO:tl

M

Coulson, J.C. and 570338  
E. White (1957)  
Bird Study, 4:166-71  
Mortality rates of the shag estimated  
by two independent methods

An estimate of 44% mortality from  
recoveries of dead shags is regarded as  
excessive owing to ring losses. Estimates  
by Jackson's negative method on the  
Farne Islands gave a figure of 14%.

:jae

M

Coulter, M.W. (1957) 570339  
J.Wildlife Mgmt, 21(1):17-21  
Predation by snapping turtles upon  
aquatic birds in Maine marshes

Includes data on fish found in stomachs  
of *Chelydra serpentina* Linnaeus.

FAO:sjh

F

Council for International 570340  
Organization of Medical  
Sciences (1957)  
Blackwell Sci.Publ., Oxford, 32 p.  
The planning of international meetings

ME

Cowper, T.R. and 570341  
R.J. Downie (1957)  
Fish.News Lett.Aust., 16(5):7, 9, 25  
Line fishing survey of S.E. slope

Summary of a report to be published  
elsewhere.

GLK:glk

M

Craig, H. (1957) 570342  
Tellus, 9:1-17  
The natural distribution of radiocarbon  
and the exchange time of carbon dioxide  
between atmosphere and sea

Steady-state equations governing the  
transfer and distribution of a radioactive  
isotope between its various exchange res-  
ervoirs are applied to the natural dis-  
tribution of carbon 14. The radiocarbon  
enrichment or depletion in each reservoir,  
relative to the hypothetical state in  
which mixing is infinitely faster than  
the decay rate, is evaluated as a quanti-  
tative function of the exchange rates  
between the reservoirs.

FAO:tl

M



Crary, A.P. and  
N. Goldstein (1957) 570343  
Deep-Sea Res., 4(3):185-201  
Geophysical studies in the Arctic Ocean

Topography; seismic reflections and  
gravity measurements along the path of  
the floating ice-island T-3.

GLK:tl

M

Gridland, C.C. (1957) 570346  
J.trop.Med. (Hyg.), 60:250-6  
Ecological factors affecting the numbers  
of snails in permanent bodies of water

Study of collections of Biomphalaria  
adownsi, B. sudanica, Bulinus forskalii  
& Gymnaca natalensis from Uganda ponds,  
1/8/54 - 28/2/56; incidence of trematode  
infection; seasonal population changes.

FiD:sjh

F

Creach, P.V. (1957) 570344  
Rev.Trav.Inst.Pêches marit., 21:415-30  
Variations physiologiques du phosphore  
total de la coquille de Gryphaea angu-  
lata Lmk) (Physiological variations  
in the total phosphate in the shell of  
G. angulata Lmk)

Methods, experimental results and  
examination of the influence of  
composition of bottom mud on the  
phosphate content of the shell.

FAO:glk

M

Gridland, C.C. (1957) 570347  
J.trop.Med. (Hyg.), 60:18-23  
Further experimental infection of several  
species of East African freshwater snails  
with Schistosoma mansoni and S. haema-  
tobium

Crisp, D.J. (1957) 570348  
Nature Lond., 179(4570):1138-9  
Effect of low temperature on the breeding  
of marine animals

Experiments made with two species of  
arctic barnacles Balanus balanoides and  
B. balanus showed that by maintaining  
individuals at a low or high temperature  
it is possible to cause breeding to take  
place at times of the year other than  
the normal breeding season.

GLK:hr :

M

Crichton, M.I. (1957) 570345  
Phil.Trans., B677(241):45-91  
The structure and function of the mouth  
parts of adult caddis flies (Trichoptera)

F

Crocker, D.W. (1957) 570349  
Bull.N.Y.St.Mus., (355), 97 p.  
 The crayfishes of New York State

F

Cronin, L.E. et al. (1957) 570352  
Spec.sci.Rep.Va Fish.Lab., (8):21 p.  
 A partial bibliography of the genus  
Callinectes

A world list of over 550 references to the decapod crustacean genus Callinectes, divided into (1) published references, (2) unpublished manuscripts, and (3) incomplete or unverified references.

FiB:hr

M

Croghan, P.C. (1957) 570350  
Proc.R.phys.Soc.Edinb., 26(1):9-10  
 The colonisation of the freshwater habitat

Account of comparative study of osmotic regulation in freshwater and brackish (Baltic) races of Mesidotea in Sweden. Full account in press (J.exp.Biol., 1957).

SJH:sjh

MF

Croome, A. (1957) 570353  
Discovery, 18:260-4  
 The international geophysical year.  
 Month by month

News report including: account of recruiting scientists for polar research in marine biology in the Falkland Islands Dependency; final calendar of Regular World Days and World Meteorological Intervals.

FAO:sjh

M

Crompton, J. (Pseud.of 570351  
 Lamburn, J.B.) (1957)  
Garden City, N.Y., Doubleday, 233 p.  
 The living sea

M

Croome, A. (1957) 570354  
Discovery, 18(1):31-5  
 The international geophysical year.  
 Month by month

News report of programme developments including preparations for hydrographic surveys.

FAO:sjh

M

Groome, A. (1957) 570355  
Discovery, 18(2):71-4  
The international geophysical year.  
Month by month

Review includes plans for oceanographic work.

FAO:sjh

M

Cruz, J.A. Machado (1957) 570358  
Notas Est.Inst.Biol.marit., (14)  
A sardina do norte de Portugal (Sardina pilchardus Walb.). Características etárias e de reprodução (The sardine of northern Portugal (Sardina pilchardus Walb.). Age and reproduction characteristics). En

Study of length, age composition and sexual maturity of 99 samples from the commercial catch.

FAO:hr

M

Groome, A. (1957) 570356  
Discovery, 18(7):307-10  
The international geophysical year.  
Month by month

Short account of the IGY programmes of different countries.

FAO:tl

M

C.S.I.R.O. (1957) 570359  
Rep.Div.Fish.Oceanogr. C.S.I.R.O., (4):16 p.

An analysis of recent catches of hump-back whales from the stocks in groups IV and V

Analyses the catches of Megaptera nodosa from 1949/50 to 1955/56 from Western Australia and Antarctic region between longitude 70°E. to 130°E. and longitude 130°E. to 160°W. A comparison of whaling of the species in antarctic and temperate waters is also presented.

FiB:hr

M

Crusz, H. (1957) 570357  
Ceylon J.Sci., Sec.B, 25:193-5  
New Anaporrhutine trematode, Staphylorchis parisi sp. nov. from the shark, Scyliodon walbeehmi

C.S.I.R.O. (1957) 570360  
Rep.Div.Fish.Oceanogr. C.S.I.R.O., (5):16 p.  
F.R.V. DERWENT HUNTER

Description of the biological and hydrographical results of the cruises. DH3/56 was a tuna longlining cruise off the New South Wales coast, DH4/56 was a cruise in Bass Strait to determine the correlation between the euphausiid Nyctiphanes australis and the barracouta Thyrsites atun, and DH5/56 was a cruise by the Division of Meteorological Physics, C.S.I.R.O. in the Port Phillip Bay area.

GLK:tl

M

M



<p>Cuba. Instituto Nacional de la Pesca (1957) 570361  <u>La Habana</u>          ¿Qué es el Instituto Nacional de la Pesca? Sus actividades y fines (What is the National Fisheries Institute? Its activities and aims)</p> <p>Describes the structure, functions and work accomplished by the Cuban Institute. Information on a planned fisheries terminal, fisheries resources and fisheries, and a list of common English, local and scientific names of the most important commercial species of Cuba is also given.</p> <p>HR:hr M</p>	<p>Currie, R.I. and P. Foxton (1957) 570364  <u>J.Mar.biol.Ass.U.K.</u>, 36(1):17-32          A new quantitative plankton net</p> <p>A meter is described which will record both the depth and amount of water which a net filters as it is hauled vertically through the water. The meter records on a smoked glass cylinder. From the records it is possible to study the complete behaviour of the net below water, what depth it has fished, how much clogging occurred, the depth of closure, etc.</p> <p>HR:tl M</p>
<p>Guerrier, J.P. and F.H. Schultz (1957) 570362  <u>Wildl.Mgmt Bull.</u>, Ser. 3, (5):41 p.          Studies of lake trout and common whitefish in Waterton Lakes, Waterton Lakes National Park, Alberta</p> <p>F</p>	<p>Cushing, D.H. (1957) 570365  <u>Fish.Invest.</u>, Lond., Ser.II, 21(3):16 p.          The interpretation of echo traces</p> <p>The form of fish traces can give some information on the size and formation of fish shoals. Illustrations of traces for several species under different conditions.</p> <p>FAO:sjh MF</p>
<p>Curl, H. (1957) 570363  <u>Limnol.Oceanogr.</u>, 2:315-20          A source of phosphorus for the western basin of Lake Erie</p> <p>The western basin of Lake Erie is supplied with phosphate phosphorus by the Maumee River in Ohio. This apparently is the most important source for the lake due to the high phosphorus concentrations involved and the large volume of flow in the spring months.</p> <p>HR:tl F</p>	<p>Cushing, D.H. (1957) 570366  <u>Fish.Invest.</u>, Lond., Ser.II, 21(5)          The number of pilchards in the Channel</p> <p>Echo survey, egg sampling, plankton and temperature measurements, April-August 1950. Stock estimate from egg numbers used to calibrate echo traces. Horizontal and vertical fish distribution; relation of <u>Clupea pilchardus</u> to environmental factors.</p> <p>FAO:sjh M</p>

<p>Cushing, D.H. (1957) 570367  <u>Nature, Lond.</u>, 179:876  Production of carbon in the sea</p> <p>Presents data on quantity of carbon in  mgm./m.<sup>3</sup>/day as % of standing crop of  phytoplankton in North Sea.</p> <p>GLK:efa</p>	<p>da Franca, P. (1957) 570370  <u>Trab.Miss.Biol.marit.</u>, (12-16):9-45  Contribuição para o conhecimento dos  Serranidae de Angola (Contribution  to the knowledge of Serranidae of  Angola)</p> <p>A systematic study with description of  the species.</p> <p>FAO:hr</p>
<p>Cushing, D.H. (1957) 570368  <u>Nature, Lond.</u>, 180:617  Production of carbon in the sea</p> <p>Reply to 571213.</p> <p>GLK:glk</p>	<p>Daget, J. (1957) 570371  <u>Hydrobiologia</u>, 9(4):321-47  Données récentes sur la biologie des  poissons dans le delta central du Niger.  (Recent data on fish biology in the  Niger delta)</p> <p>Description of environmental factors,  species list; spawning seasons,  migrations, growth of <u>Alcistes</u> and  <u>Tilapia spp.</u>; adaptations to respiratory  conditions.</p> <p>FAO:wad</p>
<p>Cushing, D.H. and 570369  A.C. Burd (1957)  <u>Fish.Invest.</u>, Lond., 20(11):31 p.  On the herring of the Southern North Sea</p> <p>Discusses the identity and unity of the  "Dowms" stock; recent natural changes in  the stock and its environment and changes  that can be ascribed to the effects of  fishing. Considers the effects of the  industrial fishery of the change in age  of maturity, and of fishing on the adult  stock.</p> <p>FAO:sjh</p>	<p>Dahl, E. (1957) 570372  <u>Nature, Lond.</u>, 179:482  Embryology of X organs in <u>Crangon</u>  <u>allmanni</u></p> <p>Brief account of investigations carried  out on embryological material of this  sp.</p> <p>FAO:efa</p>

Dahl, J. (1957) 570373  
FerskvandsfiskBl., 55(8):5 p.  
 Fiskedrabot i Lyngby Sø (Fish  
 mortality in lake Lyngby)

Description of fish mortality due to  
 lack of oxygen, and data of the changes  
 which took place in the lake and caused  
 the mortality (high pH caused by  
 intensive photosynthesis and low  
 barometric pressure).

WAD:tl

F

Dales, R.P. (1957) 570376  
Bull.Scripps Instn Oceanogr., 7:99-167  
 Pelagic polychaetes of the Pacific Ocean

Reviews the species of pelagic polychaetes  
 that have been found in the Pacific Ocean,  
 and gives keys and illustrations to aid  
 in their identification. The keys include  
 species that occur elsewhere but have not  
 yet been recorded from the Pacific.

FiB:hr

M

Dahl, J. (1957) 570374  
FerskvandsfiskBl., 55(9)  
 Ferskvandskvabbe (knude) fra saltvand  
 (Lota lota, a freshwater burbot caught  
 in marine waters)

WAD

MF

Dalos, R.P. (1957) 570377  
New Scient., 3(53):22-3  
 Ragworms and caviar

Popular account of work initiated by  
 Prof. Zenkevitch in transplanting and  
 establishing populations of Nereis succi-  
nea in the Caspian Sea from the Sea of  
 Azov; as a result of which stocks of  
Acipenser have increased by augmentation  
 of their food supply.

FAO:sjh

M

Dale, H.M. (1957) 570375  
Canad.J.Res.(Bot.), 35:51-64  
 Developmental studies of Elodea canad-  
ensis Michx. II. Experimental studies on  
 morphological effects of darkness

Gives description of morphological  
 characteristics of sprigs grown in  
 the dark and discusses factors that  
 may be responsible for pattern of  
 growth.

FAO:efa

F

Dalos, R. Ph. (1957) 570378  
J.Mar.biol.Ass.U.K., 36(1):81-9  
 The feeding mechanism and structure of  
 the gut of Owenia fusiformis delle Chiaje

Owenia may feed either by ciliary means or  
 by swallowing sand and detritus. The gut  
 consists of three main parts, a fore-  
 gut secretory, a non-secretory mid-gut  
 region and a hind-gut which is non-  
 secretory, non-absorptive. The mid-gut  
 contains coproporphyrin III and also  
 phaeophorbide-b, to which the green colour  
 is due. The green pigment in the epidermis  
 is also phaeophorbide-b, but phaeophorbide-a  
a is apparently absent from the body.

HR:hr

M



<p>d'Ancona, U. (1957) 570379  <u>Ric.sci.</u>, 27:1101-5  Istituto nazionale di studi talassografici - Attività svolta durante gli anni 1955-1956</p> <p>Report on the Institute's activity in the last two years; reorganization of the residence, scopes and finalities, thalassographic cruise in the Adriatic, Archive for Oceanography and Limnology, mareographic Section in Trieste and Section for hydrobiology of the lagoons in Chioggia, staff, research boats, participation in international activities, Geophysical Year.</p> <p>FAO:glk FM</p>	<p>Dansereau, P.M. (1957) 570382  <u>Ronald Press Co.</u>, New York, 394 p.  Biogeography and ecological perspective</p> <p>A text-book of general ecology, dealing with history of biota, bioclimatology, synecology, autecology, and influence of man on animal and plant communities.</p> <p>FAO:sjh MF</p>
<p>Danel, P. (1957) 570380  <u>Trans.Amer.geophys.Un.</u>, 38(5):761-3  Discussion of "Properties of shoaling waves by theory and experiment"</p> <p>Discussion on original article by P.S. Eagleson (1956, <u>Trans.Amer.geophys.Un.</u>, 37:565-72), on the Stokes' third approximation for wave celerity in relatively shallow water.</p> <p>FAO:tl M</p>	<p>Dao Van Tien (1957) 570383  <u>Zool.Zh.</u>, 36(8):1209-16  Zoologicheskoe issledovaniia v tsentral'nom V'etname (Raion Vin'-Lin' v provintsii Kuang-Tri) (Report on the zoological researches in the Vinh-Linh region (Quang-Tri's province, central Vietnam))</p> <p>List of fishes and other organisms collected, with some biometrical and bionomic notes.</p> <p>FAO:glk MF</p>
<p>Dannevig, G. (1957) 570381  <u>Tidskr.Hermetikind.</u>, 43(1):23-7  Omkring vekslingene i brislingfisket (On the fluctuations in the sprat fisheries)</p> <p>Description of the fluctuations from 1902-1955. Notes on results of investigations on life history, distribution of eggs and larvae and discussions on the reasons for fluctuations.</p> <p>FAO:tl M</p>	<p>Darbyshire, J. and 570384  S. Ishiguro (1957)  <u>Nature, Lond.</u>, 180(4577):150  Tsunamis</p> <p>Explanation of the origin and meaning of the word "tsunami" in Japanese.</p> <p>GLK t1 M</p>

<p>Darlington, P.J., Jr. (1957) 570385  <u>John Wiley and Sons, Inc.</u> New York, 1957,  675 p.</p> <p>Zoogeography: the geographical distribution of animals</p> <p>A geographical zoogeography concerned only with the land and fresh water and principally with vertebrates.</p> <p>:hr MF</p>	<p>Davies, D.H. (1957) 570388  <u>Invest.Rep.Div.Fish.S.Afr.</u>, (26), 59 p.  The South African pilchard (<u>Sardinops ocellata</u>) - Size composition of the commercial catches, 1950-55</p> <p>Summarizes data under following headings:  1) Sampling-catching method; frequency; daily routine. 2) Assessment of sampling-test of homogeneous population; possibility of improvement. 3) Dominant size-groups by months. 4) Dominant size-groups by years. 5) Size compositions of catches in selected areas.</p> <p>FAO:sjh M</p>
<p>da Silva, Morcira P. (1957) 570386  <u>Int.hydr.Rev.</u>, 34(2):141-4  Quelques méthodes nouvelles pour la réduction rapide des observations océanographiques (Some new methods for rapid reduction of oceanographic observations)</p> <p>Nomograms for T-S, and calculation of dynamic anomaly.</p> <p>FAO:glk M</p>	<p>Davison, V.E. (1957) 570389  <u>Louisiana Conserv.</u>, 9(5):14-9  Managing farm fishponds for bass and bluegills</p> <p>A popular illustrated article.</p> <p>FAO:sjh F</p>
<p>Davies, D.H. (1957) 570387  <u>Invest.Rep.Div.Fish.S.Afr.</u>, (29)</p> <p>The South African pilchard (<u>Sardinops ocellata</u>) and maasbanker (<u>Trachurus trachurus</u>) - Young fish survey, 1955-56</p> <p>Results of working the blanket-net regularly once a month for a period of a year at each of eleven stations situated off the west coast of South Africa. The occurrence and abundance of juvenile fish are related to water temperature, winds and availability of food.</p> <p>FAO:tl M</p>	<p>Dawson, C.A. (1957) 570390  <u>Canad.J.Econ.pol.Sci.</u>, 23:272-4  Arctic research: The current status of research and some immediate problems in the North American Arctic and Sub-arctic</p> <p>Critical review of a paper by D. Rowley, with same title. (<u>Spec.Publ.arct.Inst. N.Amer.</u>, 2(1955), repr. from <u>Arctic</u>, 7(3-4):113-366).</p> <p>FAO:sjh MF</p>

<p>Dawson, E.Y. (1957) 570391  <u>Pacif.Sci.</u>, 11(1):92-132  An annotated list of marine algae from  Eniwetok Atoll</p> <p>List of collecting localities, glossary,  key, illustrations; description of some  new species and varieties.</p> <p>GLK:glk M</p>	<p>Day, L.R. (1957) 570394  <u>Bull.Fish.Res.Bd Can.</u>, (111):103-19  Populations of herring in the northern  Gulf of St. Lawrence</p> <p>Length and age composition; growth;  year-class abundance; sex and maturity;  vertebral count.</p> <p>FAO:glk M</p>
<p>Dawson, R.M.C. (1957) 570392  <u>Biol.Rev.</u>, 32:188-229  The animal phospholipids: their structure,  metabolism and biological significance</p> <p>Account of critical investigations into  the dynamic biochemistry of animal  phospholipids, their relation to other  metabolic systems and physiological  functions in animal economy.</p> <p>FAO:efa MF</p>	<p>Day, L.R. (1957) 570395  <u>Bull.Fish.Res.Bd Can.</u>, (111):165-76  Vertebral numbers and first-year growth  of Canadian Atlantic herring (<u>Clupea</u>  <u>harongus</u> L.) in relation to water  temperature</p> <p>Water temperatures are inversely related  to vertebral number and directly related  to first-year growth when compared for  different areas, different year-classes  and different ages of the same year-  classes.</p> <p>FAO:glk M</p>
<p>Day, L.R. (1957) 570393  <u>Bull.Fish.Res.Bd Can.</u>, (111):121-37  Populations of herring in the southern  Gulf of St. Lawrence</p> <p>Comparison of size, age, maturity and  vertebral data collected in 1946, 1947  and 1948 suggest that two or more  spring-spawning populations contributed  to the commercial herring fisheries in  the southern Gulf of St. Lawrence.</p> <p>FAO:glk M</p>	<p>Deacon, G.E.R. (1957) 570396  <u>Challenger Soc.</u>, 3(9):36  The oceanographic contribution to the  International Geophysical Year</p> <p>Abstr. of paper read at Joint Meeting  of the Water Pollution Research  Laboratory, Stevenage; and Zoological  Society of London, Regent's Park,  London. 24th and 25th January, 1957.  Lists projects chosen to provide useful  contribution to IGY.</p> <p>SJH:efa M</p>



<p>Deacon, G.E.R. (1957) 570397  <u>Discovery</u>, 18:386-7  Deep ocean currents</p> <p>Popular description of the use of current data and necessity to measure permanent currents. Description of an instrument to measure deep currents, based on radio-sonde technique.</p>	<p>de Buen, F. (1957) 570400  <u>Invest.zool.chil.</u>, 4:57-61  Algunos datos para el conocimiento de la biología del langostín o langostino (<u>Cervimunida johni</u>) (Some data for the knowledge of plated lobster (<u>Cervimunida johni</u>))</p> <p>Gives data on the condition of the fishery, sexuality, maturity, total length, etc. from October to November 1955.</p>
<p>FAO:tl M</p> <p>Deacon, G.E.R. (1957) 570398  <u>Mar.Obs.</u>, 27(175):33-6  Oceanography in the International Geophysical Year</p> <p>Description of the oceanographical programme during the IGY, especially the 1) mean sea-level, 2) long waves, 3) water circulation projects, and the significance of research on the above.</p>	<p>de Buen, F. (1957) 570401  <u>Invest.zool.chil.</u>, 4:33-56  Declinación de las poblaciones animales en aguas del litoral, preferentemente moluscos y crustaceos (Diminishing of the littoral animal populations, especially shellfish and crustaceans). En</p> <p>Reviews the causes of natural mortality among littoral populations of fish and shellfish; mortality due to fishing and that caused by changes in the aquatic environment. Near extinction of oysters in the Guasimas lagoon (W. Mexico) and the obvious reduction of size in oysters at the Tampamachoco lagoon (G. of Mexico) are quoted.</p> <p>HR:glk MF</p>
<p>Deacon, G.E.R. (1957) 570399  <u>Nature Lond.</u>, 179:66-8  Marine science in the south-east Pacific Ocean</p> <p>A popular account of oceanographical problems off Chilean and Peruvian coasts.</p> <p>FAO:wad M</p>	<p>De Buissonje, P.H. et al. (1957) 570402  <u>Bol.Soc.venezol.Cienc.nat.</u>, 17(86):184-209  Informe acerca de un reconocimiento biológico y geológico de las islas venezolanas Las Aves (Report of a biological and geological survey of the Venezuelan Islands of Las Aves)</p> <p>Contains notes on the marine fauna and flora.</p> <p>FAO:hr M</p>

<p>de Carvalho, V.A. (1957) 570403  <u>Presidência da República do Brasil,</u>  <u>Conselho Coordenador d. Abastecimento,</u>  <u>Seção: Pescado em colaboração com a</u>  <u>F.O., 33 p. (mimeo)</u>          Nomes vulgares de peixes brasileiros          marinhos com seus correspondentes em          sistemática (Scientific and common          names of Brazilian marine fishes)            A glossary of names.</p>	<p>Decloitre, L. (1957) 570406  <u>Bull.Inst.franc.Afr.noire, A.Sci.nat.,</u>  <u>19:367-72</u>          Matériaux pour une faune rhizopodique          d'A.O.F. (Material for a rhizopod          fauna of F.W.A.)            Taxonomy and distribution of material          from the Mauretanian and Ivory Coasts.</p>
<p>De Carvalho Rios, E. (1957) 570404  <u>Ann.Ass.quim.Brasil., 12:181-7</u>          Chemical composition of the algae used as          fertilizers in Rio Grande</p>	<p>Deering, R.A. and 570407          R.B. Setlow (1957)  <u>Science, 126:397-8</u>          Inhibition of cell division of <u>Escheri-</u>  <u>chia coli</u> by low doses of ultraviolet          light            Cultures of <u>Escherichia coli</u> B carried          on nutrient agar slants were inoculated          into C-1 minimal medium and after          appropriate dilution were irradiated with          a water prism ultraviolet monochromator          at various wavelengths.</p>
<p>Decary, R. (1957) 570405  <u>Encycl.Hons.d'Outre-Mer, 77:15-8</u>          La pisciculture à Madagascar          (Pisciculture in Madagascar)</p>	<p>Deevey, E.S. (1957) 570408  <u>Trans.Conn.Acad.Arts Sci., 39:213-328</u>          Limnologic studies in Middle America,          with a chapter on Aztec limnology</p>

GLK:tl

F

F

de Jager, B.v.D. (1957) 570409  
Invest.Rep.Div.Fish.S.Afr., (25):78 p.  
 The South African pilchard (Sardinops  
ocellata) and maasbanker (Trachurus tra-  
churus) - Variations in the phytoplankton  
 of the St. Helena Bay area during 1954

The relationship between the occurrence,  
 quantity and distribution of phyto-  
 plankton and certain hydrological factors.  
 The phytoplankton genera recorded at two  
 selected stations are tabulated in order  
 of abundance; the quantity of phyto-  
 plankton in relation to depth  
 distribution is also given.

FAO:tl

M

Delamare Deboutteville, Cl. 570412  
 and P.A. Chappuis (1957)  
Bull.Inst.franç.Afr.noire, 19:491-500  
 Contribution à l'étude de la faune  
 interstitielle marine des Côtes d'Afri-  
 que. I. Mystacocarides, copépodes et  
 isopodes (Contribution to the study  
 of the marine interstitial fauna of the  
 African coasts. I. Mystacocarids,  
 copepods and isopods)

Morphological notes.

FAO:glk

M

De Kimpe, P. (1957) 570410  
Bull.Agric.Congo Belge, 48(1):105-52  
 Le contrôle de la Jacinthe d'eau (The  
 control of the water Hyacinth)

A review of the development and  
 destruction of the Eichhornia crassipes  
 including the first results obtained in  
 controlling it in the Belgian Congo.

WAD:hr

F

Delleur, J.W. (1957) 570413  
Proc.Amer.Soc.civ.Engrs, 83, EMT,  
 (1138):24 p.  
 The boundary layer development in open  
 channels

MF

Delamare Deboutteville, C. (1957) 570411  
Vie et Milieu, 8(1):110  
 Le mystacocaride Derocheilocaris biscayen-  
sis sur les côtes du Portugal (The  
 mystacocarid Derocheilocaris biscayensis  
 on the coasts of Portugal)

de Loture, R. (1957) 570414  
Spec.sci.Rep.U.S.Fish Wildl.Serv.,  
 213:147 p.  
 History of great fishery of Newfoundland

A comprehensive review of the cod  
 fishery. Describes socio-economic  
 development and the fishing operations  
 in detail.

FAO

M

FAO:sjh

M



<p>Délye, G. (1957) 570415  <u>Bull.Inst.océanogr.Monaco</u>, (1093):1-8          Crustacés décapodes récoltés au cours de          la croisière du comité local d'océano-          graphie et d'études des côtes d'Algérie          aux îles Habibas (Crustaceans          decapods collected during the cruise of          the local committee of oceanography and          studies of the coast of Algeria to the          islands Habibas)</p>	<p>Department of Oceanography and 570418          Meteorology. A and M College          of Texas (1957)  <u>College Station, Texas</u>, (mimeo), 7 p.          Publications and projects reports -          annual and technical 1956</p>
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List of reports published in 1956,  
dealing with many aspects of oceanography.

Gives the depths of the stations, nature  
of the bottom, list of other organisms  
collected with the decapods, the  
abundance of which is indicated.

FAO:hr

M

FiB:sjh

M

<p>Demond, J. (1957) 570416  <u>Pacif.Sci.</u>, 11(3):275-341          Micronesian reef-associated gastropods</p>	<p>Desakorn, R.T.N. (1957) 570419  <u>Int.hydr.Rev.</u>, 34(2):15-8          Progrès réalisés par le service hydro-          graphique Thaïlandais au cours des          cinq dernières années (1952-1957)          (Progress achieved by the Thai hydro-          graphic service in the course of the          last five years (1952-1957))</p>
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A synopsis of existing knowledge of the  
ecology and zoogeography of the  
organisms. It summarizes for each  
species the environmental conditions  
in which living specimens have been  
found, and it outlines the recent  
geographic occurrence of each species  
throughout the entire Indo-Pacific  
region.

Schedule of personnel sent overseas for  
training of development of establish-  
ment (and diagram of present structure),  
new equipment, and technical progress.

FAO:hr

M

FAO:glk

M

<p>De Ong, D.R. (1957) 570417  <u>Reinhold Publishing Corp.</u>, New York,          334 p.          Chemistry and uses of pesticides</p>	<p>Desbrosses, P. (1957) 570420  <u>Sci.Pêche</u>, 46:1-2          Le morlan des eaux d'Irlande (The          whiting of the Irish waters)</p>
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A note on the structure of the populations  
of whiting of the eastern and western  
coast of Ireland and coast of France.

F

FAO:hr

M

De Sylva, D.P. (1957) 570421  
Bull.Mar.Sci.Gulf Caribb., 7(1):1-20  
Studies on the age and growth of the  
Atlantic sailfish, Istiophorus americanus  
(Cuvier), using length-frequency curves

Analysis of 8630 specimens taken 1948-55  
off S.Florida, W.Bahamas and the Gulf of  
Mexico: growth in weight and length up  
to 3 years illustrated.

FAO:sjh

M

Diaz-Piferrer, M. (1957) 570424  
Paper presented at the Inter-Island  
Marine Biological Conference, March  
31 - April 6, 1957  
Studies of marine algae in Cuba

Statement of efforts to reconstitute  
collegiate curricula relating to  
natural resources, and of current  
researches. Abstract in "Report by  
the Institute of Marine Biology,  
University of Puerto Rico".

HR:glk

M

Dethier, G. (1957) 570422  
Science, 125(3243):331-6  
Communication by insects: physiology of  
dancing

Dick, W.E. (1957) 570425  
Butterworths Scientific Publications,  
London  
Atomic energy in agriculture

Includes account of uptake of radio-  
active material in food by damselfish in  
Bikini Lagoon.

FAO

F

:sjh

MF

Dexter, R.W. (1957) 570423  
Bull.ecol.Soc.Amer., 38:100  
The annual fluctuation of a freshwater  
jellyfish population with reference to  
climatic factors

Abstract of paper presented at the  
meeting of the Ecological Society of  
America, Indianapolis, December 27-29,  
1957.

GLK:glk

F

Dickie, L.M. and 570426  
J.S. MacPhail (1957)  
Progr.Rep.Atl.Cst Stas, (66):3-9  
An experimental mechanical shellfish-  
digger. Fr

Ill. description and use of gear for  
Mya arenaria fishery of maritime  
provinces of Canada.

GLK:sjh

M

Dietrich, G. (1957) 570427  
Ber.dtsch.Komm.Meeresforsch., 14(4):256-  
 82  
 Schichtung und Zirkulation der Irminger-  
 See im Juni 1955 (Stratification and  
 circulation of the Irminger Sea in June  
 1955)

Extensive charting and tabulation of data  
 from cruises of ANTON DOHRN, description  
 of water masses and of water circulation.

FAO:glk

M

Dietrich, G. (1957) 570428  
Dtsch.hydrogr.Z., 10:39-61  
 Ozeanographische Probleme der deutschen  
 Forschungsfahrten im Internationalen  
 Geophysikalischen Jahr 1957/58  
 (Oceanographic problems to be investigat-  
 ed on the German research cruises during  
 the International Geophysical Year 1957/  
 58)

Bottom topography, subsurface and deep  
 water circulation and circulation of  
 bottom water.

FAO:tl

M

Dietrich, G. (1957) 570429  
Gebr.Bornträger, Berlin-Nikolassee, 492 p.  
Allgemeine Meereskunde. Eine Einführung  
in die Ozeanographie (General  
 oceanography. An introduction to  
 oceanography)

A textbook in oceanography.

FAO:tl

M

Dieuzeide, R. (1957) 570430  
Bull.Sta.Aquic.Pêche Castiglione, (8):  
 73-80

Les myxines (Myxine glutinosa L.) en  
 Méditerranée (The myxines (Myxine  
glutinosa L.) in the Mediterranean)

An illustrated note on the occurrence  
 of the species in the Mediterranean.

FAO:hr

M

Dieuzeide, R. and 570431  
 J. Roland (1957)  
Algérie marit., 54:1-2  
 Un poisson nouveau pour la Méditerranée  
 "Ophichthys semicinctus" (A fish new  
 for the Mediterranean Sea "O. semicinctus")

Reports recent new species and extensions  
 of known range.

FAO:sjh

M

Dieuzeide, R. and 570432  
 J. Roland (1957)  
Bull.Sta.Aquic.Pêche Castiglione, (8):  
 83-106

Complément au catalogue des poissons des  
 côtes Algériennes (Complément to the  
 catalogue of fishes of the coast of  
 Algeria)

Description with notes on edible value  
 and methods of capture of Alepocephalus  
nasiratus, Bathypterois dubius, Nemichthys  
scalopaceus, Callionymus festivus, and  
Cubicops ismaelensis.

FAO:hr

M



Dieuzeide, R. and 570433

J. Roland (1957)

Bull.Sta.Aquic.Pêche Castiglione, (8):  
109-225

Etude biométrique de Sardina pilchardus Walb. et de Sardinella aurita C.V. capturées dans la baie de Castiglione (Biometric study of the Sardina pilchardus Walb. and of Sardinella aurita C.V. captured in the Bay of Castiglione)

A study of size, growth, age, longevity, sexual ration, weight, sexual development, fattening, morphometric and meristic characters.

FAO:hr

M

Diolé, P. (1957)

570436

Pan Books Ltd., London, 191 p.

4000 years under the sea - Excursions in undersea archaeology

Illustrated popular account of aqualung diving for archaeological research; includes study of ancient ships and harbours; notes on rate of growth of encrusting organisms and other observations of marine life.

SJH:sjh

M

Dieuzeide, R. and 570434

J. Roland (1957)

Bull.Sta.Aquic.Pêche Castiglione, (8):  
227-49

Observations relevées sur les sardines (Sardina pilchardus Walb.) de la Baie de Castiglione, parasitées par Peroderma cylindricum Heller (Observations on the sardines (Sardina pilchardus Walb.) of the Bay of Castiglione, parasited by Peroderma cylindricum Heller)

Contains information on percentage of individuals parasited, seasonal frequency, name and position of parasites, effect of parasites on sexual development and fattening.

FAO:hr

M

Diolé, P. (1957)

570437

Pan Books Ltd., London

The undersea adventure

Illustrated popular account of aqualung diving, with observations of floating plants, reproductive and other behaviour of marine animals.

:sjh

M

Dieuzeide, R. and 570435

J. Roland (1957)

Bull.Sta.Aquic.Pêche Castiglione, (8):  
9-27

Operations de draguages et de chalutages effectuées au large des côtes Algériennes au cours des années 1954 et 1955 (Dragging and trawling off the coasts of Algeria during 1954 and 1955)

Contains list of fishes, molluscs, crustaceans, and several groups of marine invertebrates collected during several operations.

FAO:hr

M

Dobrzhanskaia, M.A. (1957) 570438

C.R.Acad.Sci.U.R.S.S., 115(4):755-8

Sezonnye osobennosti vertikalnogo raspredelennia kislovoda v zone fotosinteza Chernogo moria (Seasonal peculiarities in the vertical distribution of oxygen within the zone of photosynthesis in the Black Sea)

M

Doi, T. (1957) 570439  
Bull.Tokai Fish.Res.Lab., 15:1-13  
(Some considerations of the personal error and precision in observing biological property of fish in relation with the communication theory). Ni

Treatment of observational error as "noise" in a communication system.  
Experimental application of concepts on information theory to age-determination of sardine, length measurements of anchovy and vertebral counts of 34 spp. of fish.

SJH:sjh

M

D88s, B. and M.A. Eaton (1957) 570442  
Tellus, 9(2):184-94

Upper-air analysis over ocean areas

A method of determining the mean lapse rate by interpolation is presented by means of which heights of upper pressure surfaces can be extrapolated from observed values of surface pressure and temperature. An attempt is made to determine statistically the true mean error in the numerical analysis of upper-air charts.

FAO:tl

M

Doodson, A.T. (1957) 570440

Int.hydr.Rev., 34(1):89-131

Analyse et prediction des marées en eau peu profonde (Analysis and prediction of tides in shallow waters)

A review of the development of methods to predict the hours and heights of low and high tides.

FAO:hr

M

Detz, M.S. and M. Oguri (1957) 570443

Limnol.Oceanogr., 2(1):37-40

Evidence for a photosynthetic daily periodicity

Refers to results obtained in measurement of photosynthetic activity indicating a 5.7-fold variation according to the time of day at which samples were collected and discusses preliminary tests of an hypothesis that there is a daily periodicity in the photosynthesising ability of organisms.

HR:glk

MF

Doodson, A.T. (1957)

570441

Int.hydr.Rev., 34(2):139

Le mouvement des marées (The movement of tides)

Commentary on a film on tides.

FAO:glk

M

Doudoroff, P. (1957) 570444

In "The Physiology of Fishes". Vol.II. Behaviour. Edited by M.E. Brown, Academic Press Inc., Publishers, New York, pp. 403-30

Water quality requirements of fishes and effects of toxic substances

FAO:glk

MF

<p>Doutre, M. (1957) 570445  <u>France Pêche</u>, 2(11):20-3  Déplacement des lieux de pêche de la  flotille thonière basée à Dakar  (Change in the area of operation  of the tuna fishing fleet based at Dakar)</p> <p>Distribution of the location of operations  in 1955-1956.</p> <p>FAO:glk M</p>	<p>Dowell, V.E. (1957) 570448  <u>Dissort.Abstr.</u>, 17(4):919-20  Activity patterns and distribution of  the fishes in the Buncombe Creek arm  of Lake Texoma</p> <p>F</p>
<p>Doutre, M. (1957) 570446  <u>Sci.Pêche</u>, 49:1-4  Déplacement des lieux de pêche de la  flotille thonière basée à Dakar  (Change in the area of operation of the  tuna fishing fleet based in Dakar)</p> <p>Records of commercial catches of <u>Nothun-</u>  <u>nus albacora</u> based on previous scientific  surveys.</p> <p>FAO:hr M</p>	<p>Drew, K.M. (1957) 570449  <u>Nature, Lond.</u>, 180(4577):112-5  The red algae (1906-56 and after)</p> <p>Historical review of the investigation  of red algae and discussion on some  unsolved problems in the life history  of these algae.</p> <p>GLK:tl M</p>
<p>Dow, R.L. and 570447  D.E. Wallace (1957)  <u>Augusta, Maine</u>, 35 p.  The Maine clam (<u>Mya arenaria</u>)</p> <p>M</p>	<p>Drion, E.F. (1957) 570450  <u>Mimeo</u>, 2 p.  The effect of small reductions of the  number of blue whale units to be taken  in Antarctic pelagic whaling</p> <p>Comments on the negligible effect of  small limitations of catches of  <u>Balaenoptera physalus</u> on the size of  the stock.</p> <p>FiB:hr M</p>



Drion, E.F. and E.J. Slijper (1957) 570451  
Mimeo, 8 p.

Some remarks on our present knowledge of the stock of fin whales in the Antarctic

Reviews the existent biological knowledge of the stocks of Balaenoptera physalus in the Antarctic. Gives in Appendix I calculated mortality rates at age zero of that species, and in Appendix II a provisional report concerning age determination by means of baleen plates in the same species by W.L. Utrecht and C.N. Cook.

FiB:hr

M

Dudek, J. (1957) 570454  
Biologia, 12:374-76

Príspevok k určeniu vplyvu svetla na intenzitu prijímania potravy u piesta zelenkavého (Blicca bjoerkna L.)  
(Contribution to the determination of the influence of light on the intensity of the uptake of food by Blicca bjoerkna L.)

Investigation on the diurnal variations in the feeding intensity.

FAO:tl

F

Droop, M.R. (1957) 570452  
J.gen.Microbiol. (Symposium on plankton), 16:286-93

Auxotrophy and organic compounds in the nutrition of marine phytoplankton

Description of earlier experiments establishing the vitamin requirements, especially B<sub>12</sub>, and sulphur compounds by marine phytoplankton organisms.

FiB:tl

M

Dumas, P.C. (1957) 570455  
Copeia, (2):150-1  
Rana sylvatica Le Conte in Idaho

Reports records that suggest the presence of a population in Idaho.

HR:efa

F

Drummond, K.H. (1957) 570453  
Dep.Oceanogr., A. and M.Coll.of Texas, 1 vol.

Oceanographic data, Gulf of Mexico

Dumas, P.C. (1957) 570456  
Copeia, (2):147-8

Range extension of the salamander Plethodon vandykei idahoensis

Reports range of distribution in Idaho, USA.

HR:efa

F

<p>Dundee, D.S. (1957) 570457  <u>Misc. Publ. Mus. Zool. Univ. Mich.</u>, (100):37 p.  <u>Aspects of the biology of Pomatiopsis</u>  <u>lapidaria</u> Say (Mollusca: Gastropoda:          Prosobranchia)</p> <p style="text-align: right;">F</p>	<p>Dunning, G.M. (Ed.) (1957) 570460  <u>U.S. Atomic Energy Comm.</u>, Washington,          53 p.          Radioactive contamination of certain          areas in the Pacific Ocean from nuclear          tests. A summary of data from the          radiological surveys and medical          examinations</p> <p style="text-align: right;">M</p>
<p>Dundee, H.A. (1957) 570458  <u>Copeia</u>, (1):52          An electrical shocker for the collection          of amphibians and reptiles in the aquatic          environment</p> <p>Reports the successful use of shocker          in clear, shallow waters for sampling          or collecting specimens.</p> <p>HR:efa</p> <p style="text-align: right;">F</p>	<p>Durán, M. (1957) 570461  <u>Invest. pesq.</u>, 8:97-120          Nota sobre algunos tintinnóideos del          plancton de Puerto Rico (Note on          some tintinnoids in the plankton of          Puerto Rico)</p> <p>Systematic list with species diagnosis.          Notes of distribution and morphology.          One species is new.</p> <p>FAO:glk</p> <p style="text-align: right;">M</p>
<p>Dunn, E.R. (1957) 570459  <u>Copeia</u>, (2):77-8          Neotropical frog genera: <u>Prostheraphis</u>          versus <u>Hyloxalus</u>, with remarks on  <u>Phyllobates</u></p> <p>A taxonomic study containing a list of          the species of the genus <u>Phyllobates</u>          and their distribution.</p> <p>HR:hr</p> <p style="text-align: right;">F</p>	<p>Durand, J.H. (1957) 570462  <u>Bull. sta. Aquic. Pêche Castiglione</u>, (8):          41-56          Etude pétographique de quelques vases          dragués au large de Tighzirt (1954) et          au large de Castiglione (1955)          (Petographic study of some samples          dragged off Tighzirt (1954) and off          Castiglione (1955))</p> <p>Gives the results of different analyses.</p> <p>FAO:hr,</p> <p style="text-align: right;">M</p>

<p>Durchon, M. (1957) 570463  <u>C.R.Acad.Sci., Paris, 244:1283-6</u>  Rôle du proventricule dans le déterminisme de la stolonisation chez les syllidiens (Annélides polychètes) (Role of the proventriculus in determinism of stolonization in the Syllidae (Polychaete annelids) )</p> <p>Ill. note on mutilation experiments with <u>Trypanosyllis zebra</u>.</p>	<p>Eddie, G.C. (1957) 570466  <u>World Fish., October 1957,:104-8</u>  The design of the SIR WILLIAM HARDY</p> <p>Some requirements for and solutions of design problems of an experimental vessel for the Torry Research Station, Aberdeen, Scotland [see World Fishing 1955:43-77].</p>
<p>FAO:sjh M</p> <p>Dyk, V. (1957) 570464  <u>Biológia, 12:333-51</u>  Dynamika endoparasitů ryb tatranských jezer (Dynamic of the endoparasites by fishes in lakes in flight Tatra)</p> <p>Seasonal and year-to-year variations in the occurrence of parasites and discussion on the possible influence of the long winters and hot summers on their abundance and seasonal occurrence. The parasites investigated were: <u>Crepidostomum farionis</u> and <u>Neocochinorhynchus rutili</u>.</p>	<p>Edgerton, H.E. (1957) 570467  <u>Deep-Sea Res., 4(4):287</u>  Nylon rope for deep-sea instrumentation</p> <p>Notes on nylon rope tests and formula for free descent, time of the rope.</p>
<p>FAO:tl F</p> <p>Eagleson, P.S. (1957) 570465  <u>Trans.Amer.geophys.Un., 38(5):763</u>  Discussion of "Properties of shoaling waves by theory and experiment"</p> <p>Discussion on the original article by P.S. Eagleson (1956, <u>Trans.Amer.geophys.Un., 37:565-72</u>), on the Stokes' third approximation for wave celerity in relatively shallow water.</p>	<p>Edmonds, S.J. (1957) 570468  <u>Aust.J.Mar.Freshw.Res., 8:55-63</u>  The respiratory metabolism of <u>Dendrostomum cymodoceae</u> Edmonds (Sipunculoidea)</p> <p>Deals with: (1) the consumption of oxygen, the production of carbon dioxide, and the respiratory quotient under aerobic conditions; (2) the ability of the animal to live under anaerobic conditions, and the nature of the end-products of anaerobic metabolism.</p>
<p>FAO:tl M</p>	<p>GLK:sjh M</p>



<p>Edwards, R.W. (1957) 570469  <u>Nature, Lond.</u>, 180:100  Vernal sloughing of sludge deposits in  a sewage effluent channel</p> <p>This is associated with the emergence of  chironomids. The sudden release of  organic material into the water is likely  to reduce the oxygen concentration, and  promote other conditions adverse to fish.</p>		<p>Ekman, S. (1957) 570472  <u>Vetenskaps.Handl.</u>, 4(6):172 p.  Die gewässer des Abisko-gebietes und  ihre bedingungen (The waters of  the Abisko area and their conditions)</p>	
GLK:jae F		FAO F	
<p>Einsele, W. (1957) 570470  <u>Schr.Öst.FischVerb.</u>, 1:10 p.  <u>Flussbiologie, Kraftwerke und Fisherei</u>  (Biology of rivers, power stations and  fishery)</p>		<p>Elliott, G.F., J. Hanson 570473  and J. Lowy (1957)  <u>Nature, Lond.</u>, 180:1291-2  Paramyosin elements in lamellibranch  muscles</p> <p>A preliminary account of studies on the  structure of muscle fibres and the  location of the water-insoluble  tropomyosin in the white parts of the  adductor muscles of <u>Mytilus edulis</u>,  <u>Ostrea edulis</u>, <u>Gryphaea angulata</u>,  <u>Pinna nobilis</u> and <u>Mercenaria mercenaria</u>.</p>	
F		GLK:wad M	
<p>Eisler, R. (1957) 570471  <u>Growth</u>, 21(3):197-203  The influence of light on the early  growth of chinook salmon</p> <p>Reviews literature and reports new  experiments on fingerlings of  <u>Oncorhynchus tshawytscha</u>.</p>		<p>Elmendorf, C.H. and 570474  B.C. Heezen (1957)  <u>Bell Syst.tech.J.</u>, 36:1086  Currents and submarine cables (?)</p> <p>Reports breakages at Magdalena River,  Columbia and damage elsewhere in world  by turbidity currents, earthquakes and  other hazards.</p>	
FAO:sjh MF		:sjh M	

Elsworth, R., V. Williams  
and R.H. Smith (1957) 570475  
J.appl.Chem., 7:261-8  
A systematic assessment of dissolved  
oxygen supply in a 20-litre culture  
vessel

El Wardani, S.A. (1957) 570478  
Deep-Sea Res., 4(3):219-20  
On the biogeochemistry of igneous  
detritus

Notes on a mineralogical study of  
mincrogen seston in the sea.

F

GLK:tl

M

Elton, C. (1957) 570476  
Nature, Lond., 180:1002  
Interspecific competition

Review of 581063.

Embrey, L.A. et al. (1957) 570479  
Washington, National Science Foundation,  
51 p.

A bibliography for the International  
Geophysical Year

GLK

MF

MF

el Wakool, S.K. and 570477  
J.P. Riley (1957)  
J.Cons.int.Explor.Mor., 22(2):181-3  
The determination of organic carbon in  
marine muds

A method is described for the analysis of  
marine muds for organic carbon, based on  
oxidation with chromic acid and  
titrimetric determination of the oxidant  
consumed. An empirical correction factor  
has been evaluated to correlate the  
carbon content found with that obtained  
by combustion. The method can also be  
used with slight modification for the  
approximate analysis of plankton.

GLK:sjh

H

Enacceanu, V. (1957) 570480  
Bul.Inst.Cerc.piscic.Roman., 16(2):83-5  
Contributiuni la determinarea  
productivitatii apelor piscicole  
(Contribution to determination of  
productivity of fishing waters).  
Ru Fr

A note on faunal biomass estimation in  
the Danube flood-basin.

FAO:sjh

F

Engelberg, H. (1957) 570481  
Fish.Bull., Haifa, (14):17  
(An experiment in the freezing of cooked fish). Iw

SJH

MF

Erickson, W.C. (1957) 570484  
Nature, Lond., 179:773  
Generation of polarized light in the crab Nebula

A discussion of the mechanics of generation of polarized light emitted by the crab Nebula.

GLK:hr

MF

Eniutina, R.I. and 570482  
M.L. Krykhtin (1957)  
Zool.Zh., 36(9):1421-2  
O sluchaiakh poimki lososei s iaponskimi rybolovnymi kriuchkami v Amurskom limane (On catching salmon with Japanese fish-hooks in the Amur firth)

FAO

M

Erman, F. (1957) 570485  
Balık Balıkçılık, 5(7):9-12  
Kefalların yüzgeç şualarından yaş tayini (The determination of the age of mullets from their fins)

Explains the method of determining the age of mullets used in the Hydrobiological Research Institute.

SJH:sjh

M

Ercegovic, A. (1957) 570483  
Paper presented at the Comité du Benthos de la Comm.int.expl. de la Médit., Gênes, 10 - 11 Juin 1957  
Principes et essai d'un classement des étages benthiques (Principles and test of a classification of benthos zonation)

FAO

M

Erman, F. (1957) 570486  
Balık Balıkçılık, 5(10):9-13  
Haskofal (Mugil cephalus) dan havyar çıkarılması ve hazırlanması (Preparation of caviar from grey mullets)

Feature article dealing with the preparation from mullets, in Küçükçekmece Lake, near Istanbul.

SJH:sjh

MF



Ertl, M. and S. Juriš: (1957) 570487  
Biológia, 12:352-61  
 Planktón astatických vôd z oblasti  
 Oravskej priehrady (Plankton of the  
 astatic waters from the Orava-Dam area).  
 Ru De

Taxonomic account with an indication of relative abundance.

Page 41

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Esterson, G.L. (1957) 570490  
Tech.Rep.Chesapeake Bay Inst., 14:1-183  
The induction conductivity indicator.  
 A new method for conductivity measure-  
 ment at sea

The theory of the method and description of the apparatus.

FLO:tl

M

Eschenberg, K.M. (1957) 570480  
Univ. Microfilms, Publ. 21202, 136 p.  
 Sedimentability and biochemical  
 characteristics of pentosenucleic acid  
 complexes in the embryonic and adult  
 sea urchin

M

Etzion, Y. (1957) 570491  
Fish.Bull., Haifa, (13):16-8  
(Boat Owners' Association, its aims and  
functions). IW

S.J.H

M

Eschmeyer, P.H. (1957) 570489  
Spec. sci. Rep. U.S. Fish Wildl. Serv.,  
 (208):129 p.  
 Note on the subpopulations of lake trout  
 in the Great Lakes

Contribution to written symposium on  
subpopulations of fishes (581145).  
Short note on Salvolinus namaycush  
stocks.

FAO: sjh

F

Luler, U.S.v.,  
and E. Östlung (1957)  
Acta physiol.scand., 38:364-72  
Effects of certain biologically occurring  
substances on the isolated intestine of  
fish

MF

Evans, A. (1957) 570493  
Dover Publications, New York, 82 p.  
The care and breeding of goldfish

F

Ewer, R.F. (1957) 570496  
Science, 126:599-603  
Ethological concepts

Discussion of 'innate behaviour pattern' and 'self-differentiating responses' in contrast with learned behaviour and suggestion of a reconciliation between the opposed schools of thought. Discussion of 'action-specific energy' in respect of the neural basis to some elements of behaviour.

FAO:glk

MF

Evans, F. (1957) 570494  
J.Mar.biol.Ass.U.K., 36:493-9  
Sea currents off the Northumberland coast

Observations have been made of the surface currents over a period of 12 months, using a free-floating buoy. A mean vector current was found, setting 114° at 0.1 knot. Currents flowed into the quadrant to the right of downwind except when this would have directed them ashore. A relationship is established between wind speed and current speed.

GLK:hr

M

Ewing, G.C. (1957) 570497  
Res.Rev.U.S.Off.nav.Res., Anniversary Issue, :24-8  
Oceanography in the United States

Brief review of oceanographic activities in U.S. institutions.

WAD:tl

M

Evans, R.G. (1957) 570495  
J.Ecol., 45:245-71  
The intertidal ecology of some localities on the Atlantic coast of France

Zonation patterns described for a series of rocky shores from Brittany to the Basque. Discussion of concept of "critical levels" and examination of Doty's (1946) "tide-factor" hypothesis.

FAO:sjh

M

Ewing, W.M., W.S. Jardetzky 570498  
and F. Press (1957)  
McGraw-Hill, New York, 380 p.  
Elastic waves in layered media

M

<p>Eyriès, M. (1957) 570499  <u>Int.hydr.Rev.</u>, 34(1):133-59          La méthode des concordances et l'analyse harmonique par les constantes approchées          (The method of concordance and harmonic analysis for the approximate constants)</p> <p>Description of the concordance method for the study of tides.</p> <p>FAO:hr M</p>	<p>F.A.O. Fisheries Division. 570502          Technology Branch. (1957)  <u>Stud.Rev.gen.Fish.Coun.Medit.</u>, (2), 9 p.          Mediterranean trawling - Preliminary observations in the study of Italian trawl nets</p> <p>Observations, using sensitive echosounders, on behaviour of trawl made in December 1956 at Anzio, Italy.</p> <p>SJH:sjh M</p>
<p>Ezekiel, M. (1957) 570500  <u>J.Fm Econ.</u>, 39:221-34          Ten years of FAO statistics and economics training centers</p> <p>A review of experience.</p> <p>FAO:sjh MF</p>	<p>F.A.O. (1957) 570503  <u>IPFC Secretariat, FAO Regional Office for Asia and the Far East, Bangkok, 1957</u>, 174 p.          Proceedings Indo-Pacific Fisheries Council, 6th Session, Tokyo, 30th September - 14th October, 1955</p> <p>Agenda, summary report of plenaries, recommendations of technical committees; reports of council's observers at other meetings; report of executive committee; review of Council's work; statements by member governments; list of delegates, observers, and of documents issued.</p> <p>SJH:sjh MF</p>
<p>F.A.O. Fisheries Division. 570501          Biology Branch (1957)  <u>Stud.Rev.gen.Fish.Coun.Medit.</u>, (1), 35 p.          Standardization of biometric and observation methods for Clupeidae (especially <u>Sardina pilchardus</u>) used in fisheries biology</p> <p>A review with proposals for standardization and headings: metric characters (size and length criteria, body dimensions, degree of accuracy of measurements); numerical characters (vertebrae, gill-rakers); scales; sexual maturation; planktonic stages of developing eggs; plan of action for GFCM, bibliography.</p> <p>SJH:sjh M</p>	<p>Fänge, R. (1957) 570504  <u>Nature, Lond.</u>, 180(4578):196-7          An acetylcholine-like salivary poison in the marine gastropod <u>Neptunaea antiqua</u></p> <p>Feeding habits of the mollusc are not known, but injections of extracts 1/100<sup>th</sup> of a gland quickly killed small fishes (<u>Ctenolabrus</u>, <u>Gadus</u>); chemical and physiological tests on paper chromatography also used to assess properties of the substance.</p> <p>GLK:sjh M</p>



Fagerholm, P.O. (1957) 570505  
Int.hydr.Rev., 34(2):89-94  
 La photogrammetrie dans les lèves hydro-  
 graphiques Suedois (Photogrammetry  
 in Swedish hydrographic surveys)

Account of field and laboratory work  
 illustrated by representative photo-  
 graphs and maps.

FAO:glk

M

Farrin, A.E., L.W. Scattorgood 570506  
 and C.J. Sindermann (1957)  
Progr.Fish Cult., 19:188-9  
 Maintenance of immature sea herring in  
 captivity

Detailed description of the capture,  
 transportation, holding, feeding and  
 disease treatment of Clupea harengus.

WAD:wad

M

Fagerström, Å. (1957) 570506  
Svensk Fisk.Tidskr., 66:76-8  
 Ett försök att gödsla fiskevattnen med  
 thomasfosfat (An attempt to  
 fertilize fish-waters with Thomas-  
 phosphate)

Influence of the fertilization on the  
 growth of fish in some small Swedish  
 lakes.

FAO:tl

F

Fassett, N.C. (1957) 570509  
University of Wisconsin Press, Madison,  
 405 p.  
 A manual of aquatic plants

Identification keys, figures and  
 descriptions of macroscopic hydrophytes  
 from Minnesota to Missouri and east-  
 ward to Gulf St. Lawrence and Virginia.

:tjj

MF

Farmor, F.R. (1957) 570507  
Min.Proc.Instn civ. Engrs, 6:21-44  
 The problem of liquid and gaseous  
 effluent disposal at Windscale

Reports investigations of offshore  
 tidal streams, of mixing and circulation  
 of water, and samples of fish, seaweeds  
 and bottom mud, in connection with  
 radioactive effluents entering the  
 Irish Sea.

:sjh

M

Fauvel, P. (1957) 570510  
Bull.Res.Coun.Israel, 6B(3-4):213-9  
 Contribution à la faune des annelides  
 polychètes des côtes d'Israel. II.  
 (Contribution to the polychaete annelids  
 fauna of the coasts of Israel. II.)

Notes on occurrence of several spp.,  
 with illustrated description of Rhodine  
loveni Mgr.var. gracilior Tb., genus  
 and species new for Mediterranean.

FAO:sjh

M

Fauvel, P. (1957) 570511  
Bull. Sea Fish. Res. Sta., Haifa, (13):3-11  
 Contributions to the knowledge of the  
 Red Sea - No. 1 - Sur quelques annélides  
 polychètes du Golfe d'Akaba (On some  
 polychaete annelids from the Gulf of  
 Akaba)

List of spp., by families, with notes on  
 external features and distribution.

SJR:sjh

M

Felzenbaum, A.I. (1957) 570514  
C.R. Acad. Sci. U.R.S.S., 116:217-20  
 O szhatiakh i razrezheniakh lotov v  
 arkticheskom basseine (Tightening  
 and loosening of ice fields in the  
 Arctic basin)

Forces which determine the behaviour of  
 ice fields. Formulae and indices.

TL:go

M

Fauvel, P. et F. Rullier (1957) 570512  
Bull. Inst. franç. Afr. noire, A. Sci. nat.,  
 19:373-99

Nouvelle contribution à la faune des  
 annélides polychètes du Sénégal (New  
 contribution to the polychaete annelids  
 fauna of Senegal)

Distributional notes on 30 species.

FLG:glk

M

Fedorov, K.N. (1957) 570513  
C.R. Acad. Sci. U.R.S.S., 116:393-6

O godovykh i polugodovykh kolebaniakh  
 obshchei tsirculiatsii okeanov  
 (Annual & semi-annual fluctuations of the  
 general circulation in oceans)

Study of the behaviour of ocean currents  
 and their relation to winds.

FLG:glk

M

Fel'zenbaum, A.I. (1957) 570515  
C.R. Acad. Sci. U.R.S.S., 113(2):307-10  
 (Theoretical principles of calculating  
 ice-drift in the central Arctic basin).  
Ru

Field, H. (1957) 570516  
University of Miami Press, Coral Gables,  
Florida, 464 p.  
 Bibliography on southwestern Asia: IV.  
 A fourth compilation

Includes numerous references to aquatic  
 organisms and fisheries, especially to  
 publications dated January 1 - December  
 31, 1956 but with some earlier titles.  
 Author index.

GLK:sjh

FM

Fields, P.E. (1957) 570517  
Sci.Mon., N.Y., 85:10-22  
Guiding migrant salmon

Economic and technical aspects of maintaining salmon stocks in waters being used for power, irrigation and industrial purposes. Review of research on fish behaviour relevant to this problem.

FAO:wad

F

Fingerman, M. (1957) 570520  
Biol.Bull., Wood's Hole, 112(1):7-20  
Relation between position of burrows and tidal rhythm of Uca.

Analysis of tidal and semilunar rhythms of colour change with reference to the role of water level as determinant of phase of these rhythms. Cycles and their amplitude are described and discussed and the results are discussed in terms of possible exogenous causes of certain of the cycles.

FAO:glk

M

Figueroas, A. (1957) 570518  
Invest.pesq., 8:3-14  
Datos sobre la edad y crecimiento del bacalao (Gadus callarias, L.) de Terranova (Data on the age and growth of cod (Gadus callarias, L.) of Newfoundland)

A report of study based on the reading of otoliths.

FAO:glk

M

Fingerman, M. (1957) 570521  
Physiol.Zool., 30(2):142-54  
Physiology of the red and white chromatophores of the dwarf crayfish, Cambarellus shufeldti

Study of the behaviour of isolated chromatophores, of endocrine control of pigment dispersion in isolated chromatophores, and of chromatophore responses in the entire animal to blood transfusions.

FAO:glk

F

Figueroas, A. (1957) 570519  
Invest.pesq., 7:49-97  
Moluscos de las playas de la ría de Vigo (Molluscs of the beaches of the "Ría de Vigo"). En

Growth and reproduction of Tapos decussatus, Tapos pallastra and Cardium edule have been studied. Growth is reported by a formula for change in volume. Frequency of spawning and its relation with water temperature are reported. Abundance of larvae was observed.

FAO:glk

M

Fingerman, M. (1957) 570522  
Tulane Stud.Zool., 5(6):139-47  
Endocrine control of the red and white chromatophores of the dwarf crawfish, Cambarellus shufeldti

Describes experiments in which eyestalk and nervous organ extracts were injected into one-eyed crawfish.

FAO:sjh

F



Fingerman, M. and 570523  
L.D. Fairbanks (1957)  
Comm.Fish.Rev., 19(11):10  
Structure and function of the kidney in  
the oyster

A note on experiments with Crassostrea  
virginica.

FAO:sjh

M

Fingerman, M. and 570526  
M.E. Lowe (1957)  
Tulane Stud.Zool., 5(7):151-71  
Hormones controlling the chromatophores  
of the dwarf crawfish, Cambarellus  
shufeldti: their secretion, stability,  
and separation by filter paper  
electrophoresis

Describes experiments introducing  
injections of blood and tissue extracts.

FAO:sjh

F

Fingerman, M. and 570524  
L.D. Fairbanks (1957)  
Tulane Stud.Zool., 5:55-68  
Heat death and associated weight loss  
of the oyster Crassostrea virginica

Oysters survived temperatures below 35°C  
but above 41°C appreciable death and  
weight loss occurred. Weight losses  
have been interpreted as due primarily  
to loss of body fluid.

FAO:sjh

M

Finn, D.B. (1957) 570527  
Sea Frontiers, 3:180-6  
Radio-activity and world fisheries

Discussion of the increase in the use and  
production of radio-active materials and  
of the growing problem concerning the  
disposal of radio-active wastes.

FAO:glk

MF

Fingerman, M. and 570525  
M.E. Lowe (1957)  
Physiol.Zool., 30:216-31  
Influence of time on background upon  
the chromatophore systems of two  
crustaceans

Experiments to yield information on  
control of the chromatophores of the  
dwarf crayfish, C. shufeldti, and the  
fiddler crab, U. pugilator, and to  
determine whether changes occurred in  
the chromatophores, blood, and  
neurosecretory cells of the circum-  
oesophageal connectives while the  
organisms were kept on black and on  
white backgrounds.

FAO:glk

M

Fish, G.R. (1957) 570528  
Fish.Publ., Lond., 10:68 p.  
A seiche movement and its effect on the  
hydrology of Lake Victoria

Investigation of the periodic  
fluctuations of T and O<sub>2</sub> as caused by  
internal seiche; influence of the wind  
as the initiating factor of the seiche,  
influence of the bottom deposits on the  
O<sub>2</sub> content of deep water and its  
influence on the nutrient exchange  
between the mud and water above;  
influence of thermal stratification on  
the distribution of plankton.

FAO:t1

F

Fleminger, A. (1957) 570529  
Fish.Bull., U.S., 57(117):355-63  
New calanoid copepods of the families  
Actideidae, Euchaetidae, and Stephidae  
from the gulf of Mexico

A description of Bradyidius arnoldi,  
Euchaeta paraconcinna and Stephos  
deichmannae.

FAO:glk

M

Flickinger, R.A. (1957) 570532  
Biol.Bull., Wood's Hole, 112(1):21-7  
Evidence from sea-urchin-sand dollar  
hybrid embryos for a nuclear control of  
alkaline phosphatase activity

Examination of the activity of alkaline  
phosphatase in Strongylocentrotus  
purpuratus and Dendraster excentricus  
embryos.

FAO:glk

M

Fleminger, A. (1957) 570530  
Fish.Bull., U.S., 57(116):347-54  
New genus and two new species of  
Tharybidae (Copepoda Calanoida) from  
the Gulf of Mexico with remarks on  
the status of the family

Briefly reviews the family and discusses  
salient characters common to  
Tharybidae, Scolecithricidae, Phaennidae,  
and Diaxidae. A new genus Parundinella  
is defined and compared to other genera  
of the family in a synoptic key. The  
new species Parundinella spinodenticula  
and P. manicala are described from the  
Gulf of Mexico.

FAO:hr

M

Florida State Board of 570533  
Conservation, Marine Fisheries  
Research (1957)  
Salt.Wat.Gamefish Res.Newsletter., 10  
The future of the salt water game  
fishing

FAO

M

Fleminger, A. (1957) 570531  
Tulane Stud.Zool., 5(2):19-34  
New calanoid copepods of Pontella Dana  
and Labidocera Lubbock with notes on  
the distribution of the genera in the  
Gulf of Mexico

Describes three new calanoid copepods  
from Gulf of Mexico: Pontella mimoce-  
rami, P. polydactyla and Labidocera  
mirabilis. Records of previously known  
species of Pontella and Labidocera  
are charted and their distributional  
patterns in the Gulf of Mexico are  
discussed.

FAO:sjh

M

Florida. State University. 570534  
Tallahassee. (1957)  
Tallahassee, Fla., 16 p.  
The Oceanographic Institute 1957-1958

FAO

M

<p>Fogg, G.E. (1957) 570535  <u>J.gen.Microbiol.</u> (Symposium on plankton),  16:294-97  Relationship between metabolism and  growth in plankton algae</p> <p>Discussion on the growth phases in the  culture, the importance of extracellular  products on the growth, and comparison  of the culture growth to the growth of  natural populations.</p>	<p>Forest, J. (1957) 570538  <u>Bull.Inst.franç.Afr.noire, A.Sci.nat.</u>,  19:501-10  Mise au point sur les <u>Brachynotus</u> de  Méditerranée et d'Afrique occidentale:  <u>Brachynotus sexdentatus</u> Risso et  <u>Brachynotus atlanticus</u> nov.sp.  (Description of <u>Brachynotus</u> of  Mediterranean Sea and West Africa:  <u>Brachynotus sexdentatus</u> Risso and  <u>Brachynotus atlanticus</u> nov.sp.)</p> <p>Discussion of the status of these  species and description of the new  species.</p>
<p>FiB:tl MF</p>	<p>FAO:glk M</p>
<p>Folk, R.L. and W.C. Ward (1957) 570536  <u>J.sediment.Petrol.</u>, 27:3-26  Brazos River bar: a study in the  significance of grain size parameters</p> <p>MF</p>	<p>Forrester, A.L. (1957) 570539  <u>Wat.Waste Treatm.J.(Wat.Sanit.Engr)</u>,  6:353-6  Disposal of radio-active waste effluents  from small industrial nuclear power  plants</p> <p>MF</p>
<p>Follmann, G. (1957) 570537  <u>Planta</u>, 48:393-417  Crown plasmolysis and the contraction  of vacuoles. II. Plasmolysis in  response to stimuli by marine plankton  diatoms</p> <p>MF</p>	<p>Foster, A.B. and 570540  R.H. Hackman (1957)  <u>Nature, Lond.</u>, 180:40-1  Application of ethylenediaminetetra-  acetic acid in the isolation of  crustacean chitin</p> <p>Biochemistry of the cuticle of <u>Cancer</u>  <u>pagurus</u>.</p> <p>GLK:sjh M</p>



Found, H.R. and 570541  
R.R. Logie (1957)  
Circ. Atlant. biol. Sta., gen. Ser., (29):  
2 p.  
Rehabilitation of disease-depleted  
oyster fisheries

Brief review of epidemics in Prince  
Edward Is., New Brunswick and Nova  
Scotia, with notes on the 3-year  
programme for rehabilitation of stricken  
areas.

FAO:efa

MF

Fowler, H.W. (1957) 570542  
Ichthyol. Notes, 1:65-72  
Notes on Australian fishes

A list of species from Queensland,  
New South Wales, and Lady Musgrave  
Island.

GLK:hr.

M

Fox, H.M. (1957) 570544  
Nature, Lond., 179:148  
Haemoglobin in Crustacea

See 584872.

GLK

MF

France, Comité Central des 570545  
Pêches Maritimes (1957)  
Paris, 45 p.  
Rapport sur la production de l'industrie  
des pêches maritimes en 1956 (Report  
on the production of the maritime  
fisheries in 1956)

M

Fox, D.L. (1957) 570543  
In "The Physiology of Fishes". Vol. II.  
Behaviour. Edited by M.E. Brown,  
Academic Press Inc., Publishers, New  
York, pp.367-85  
The pigments of fishes

FAO

MF

Francis-Boeuf, C. (1957) 570546  
Presses universitaires de France,  
Paris, 128 p.  
Les Océans (The Oceans)  
3rd edition entirely revised by  
Bourcart, J. and V. Romanovsky.

M

Frank, P.W., C.D. Boll 570547  
and R.W. Kelly (1957)  
Physiol.Zool., 30(4):287-304  
Vital statistics of laboratory cultures  
of Daphnia pulex De Geer as related to  
density

Age and density-specific survivorship,  
birth, and growth rates have been  
measured in experimental Daphnia cohorts  
at seven numerical densities.  
Implications of these relations for  
prediction of a populational model are  
discussed.

FAO:glk

F

Freeman, B.O. (1957) 570550  
Miss.Gamc Fish, 20(6):5 and 11  
What is a fisheries biologist?

Popularly written explanation with  
special reference to work in the U.S.

FAO:wad

MF

Fraser, F.C. (1957) 570548  
Aust.Zool., 12:284-92  
The nymphs of Synlestes tropicus Tillyard,  
Chorismagrion risi Morton, Oristicta  
filicicola Tillyard and Lestoidea  
conjuncta Tillyard: with description of  
the female of the latter and further  
notes on the male

Taxonomic notes and description of  
nymphs of Odonata.

FAO:hr.

F

Freeman, J.C., Jr. 570551  
and L. Baer (1957)  
Trans.Amer.geophys.Un., 38(4):483-94  
The method of wave derivatives

The equations for two-dimensional time-  
dependent flow of an incompressible  
fluid with a free surface are  
reformulated in this paper. These are  
made up of linear combinations of the  
motion and continuity equations.  
Applied to the motion of a mound of  
water in a flat-bottom sea.

GLK:tl

M

Frassetto, R. and 570549  
J. Northrop (1957)  
Deep-Sea Res., 4:138-46  
Virgin Islands bathymetric survey

M

Freeman, P. (1957) 570552  
Bull.Brit.Mus.(nat.Hist.), 5(9):321-426  
A study of the Chironomidae (Diptera)  
of Africa south of the Sahara

F

Freeman, P. (1957) 570553  
Résult.sci.Explor.hydrobiol.Kivu, Eduard  
and Albert, 3(2):205-21  
 Chironomidae (Diptera, nematocera) -  
 Imagines (Pictures)

Fried, Z. (1957) 570556  
Fish.Bull., Haifa, (13):33-5  
 (Use of power block for ring net hauling)  
Iw  
 Illustrated.

F

SJH:sjh

M

Fridman, R. (1957) 570554  
Bull.Com.cent.Océanogr., 9(9):508-10  
 Sur des amas périodiques de matériel plus  
 grossier à la surface de certaines  
 plages sabieuses (On the periodic  
 accumulation of heavier material on the  
 surface of certain sandy beaches)

Note of observations made.

Fried, Z. and Y. Assaf (1957) 570557  
Fish.Bull., Haifa, (13):31-3  
 (To the problem of trawl net study). Iw  
 Short illustrated article.

FAO:glk

M

SJH:sjh

M

Fried, Z. (1957) 570555  
Fish.Bull., Haifa, (11):26-8  
 (Tuna fishing with the ring net). Iw

Ill. article.

Frost, W.E. (1957) 570558  
Nature, Lond., 179:594  
 First record of the elver of the African  
 eel Anguilla nebulosa labiata Peters

Based on a 1956 collection from  
 Tanganyika which also included first  
 elvers of Anguilla bicolor bicolor to  
 be recorded from mainland of Africa  
 (second record for African fresh waters).

SJH:sjh

M

FiB:wad

F



<p>Frost, W.E. (1957) 570559  <u>Piscator</u>, (38):3 p.  A note on eels (<u>Anguilla</u> spp.)</p> <p>Notes on the identity and distribution of eels in the Zambesi river system based on collections made in 1954-56.</p> <p>SJH:wad F</p>	<p>Furshpan, E.J. and 570562  D.D. Potter (1957)  <u>Nature, Lond.</u>, 180(4581):342-3  Mechanism of nerve-impulse transmission at a crayfish synapse</p> <p>Experiments with <u>Astacus fluviatilis</u> to test the hypothesis that a one-way transmission process can take place by means of an 'electrical' mechanism in which the local currents can cross the synaptic membrane in only one direction.</p> <p>GLK:glk F</p>
<p>Fukuhara, E. (1957) 570560  <u>Bull.Hokkaido reg.Fish.Res.Lab.</u>, (16):70-3  (Ecological studies on <u>Iridophycus cornucopiae</u> (P. et R.) Setch. et Gardn.  6. On the shedding of the spores (I))  <u>Ni</u> En</p> <p>Laboratory studies throughout 1956 showed hardly any diurnal variation in shedding rate, nor any effect of tides or temperature.</p> <p>FAO:sjh M</p>	<p>Furth, F.R. (1957) 570563  <u>Res.Rev.U.S.Off.nav.Res., Anniversary Issue</u>, :14-6  The Navy's stake in underwater acoustics</p> <p>The importance of sound propagation investigations in the sea.</p> <p>WAD:tl M</p>
<p>Furnestin, M.L. (1957) 570561  <u>Rev.Trav.Inst.Pêches marit.</u>, 21(1/2), 356 p.  Chaetognathes et zooplancton du secteur Atlantique marocain (Chaetognaths and zooplankton of the Atlantic Moroccan region)</p> <p>Description of the environment and list of the species encountered; ecological observations on certain groups with detailed account of the morphology and ecology of the chaetognaths. Discussion of distribution of the zooplankton and of the influence of hydrographical factors on the annual planktonic cycle, with definition of plankton indicators of Moroccan waters.</p> <p>FaO:glk M</p>	<p>Furukawa, A. (1957) 570564  <u>Bull.Jap.Soc.sci.Fish.</u>, 23:124-37  (Recent advances in measurement of aquatic suspensoid). <u>Ni</u></p> <p>A review; ill., with full bibliography.</p> <p>SJH:sjh M</p>

Furukawa, I. et al. (1957) 570565  
Rep.Nankai reg.Fish.Res.Lab., 6:46-76  
(Study on the tuna long line fishery in  
the East China Sea. I.) Ni En

Catch trends; gear and methods used,  
relation of bait to size of catch;  
correlation of hook-rate and monthly  
catch and relation of fishing effort  
to migrations; spp. composition  
(swordfish, striped marlin, yellowfin  
tuna, white marlin, sailfish).

FAO:sjh

M

Gaarder, K.R. and 570568  
J. Markali (1957)  
Nytt Mag.Bot., 5:1-5  
On the coccolithophorid Crystallolithus  
hyalinus n. gen., n. sp.

A diagnosis, based mainly on electron  
micrographs, of a new coccolithophorid  
genus with one species. A description  
is given of the cell as seen in the  
light microscope, the coccolith  
structure is discussed and likewise the  
probable relation to some other  
coccolithophorids.

FAO:tl

MF

G., C.H. (1957) 570566  
J.Ecol., 45:612-16  
British Ecological Society. Autumn  
meeting at Southampton, September  
22nd-24th, 1956

Includes account of symposium on the  
ecology of Spartina townsendii, with  
contributions by C.E. Hubbard,  
E.M. Uren, P.A. Caldwell, P.J. Goodman  
and D.S. Ranwell; papers on 'A new grab  
for the quantitative sampling of mud'  
(J.B. Ford) and 'Boring activity of the  
gribble Limnoria tripunctata Menzies -  
Isopoda (S.K. Eltringham).

FAO:sjh

M

Galowski, K. (1957) 570569  
Ann.Mus.zool.polon., 16(17):224-319  
Przegląd krajowych gatunków z rodzaju  
Rhantus Dejean (Coleoptera, Dytiscidae)  
(Review of the Polish species of the  
genus Rhantus Dejean (Coleoptera,  
Dytiscidae)

A revision of ten species of the genus  
including information on their ecology  
and distribution.

FAO:hr

F

G., C.H. (1957) 570567  
J.Ecol., 45:604-7  
British Ecological Society. Spring  
meeting, London, March 27th-28th, 1956

Account of symposium on 'Production',  
which includes papers on 'Marine  
plankton production' (J. Corlett),  
'Production of chironomids in lakes'  
(J.H. Mundi), 'Estimates of fish  
production and its exploitation'  
(E.D. Le Cren).

FAO:sjh

MF

Gal-Paz, M. (1957) 570570  
Fish.Bull., Haifa, (13):35-6  
(Report on the use of hybrid net on F/V  
Tzofia). Iw

SJH

M

Gameson, A.L.R. (1957) 570571  
Challenger Soc., 3(9):32  
The Thames estuary and its pollution.  
III. Rate of solution of atmospheric  
oxygen

Abstr. of paper read at Joint Meeting  
of the Water Pollution Research  
Laboratory, Stevenage; and Zoological  
Society of London, Regent's Park,  
London. 24th and 25th January, 1957.  
Content as per title.

SJH:efa

MF

Garnaud, J. (1957) 570574  
Bull.Inst.oceanogr.Monaco, 1096:1-10  
Ethologie de Dascyllus trimaculatus  
(Rüppell) (Ethology of Dascyllus  
trimaculatus (Rüppell))

Contains information on behaviour,  
spawning, eggs and larvae collected  
during four years of study of the  
species in an aquarium.

FAO:hr

M

Ganapati, P.N. and 570572  
D.V. Subba Rao (1957)  
Curr.Sci., 26(11):347-8  
On upwelling and productivity of  
the waters off Lawson's Bay,  
Waltair

Records with bathythermograph  
readings, the variations in salinity,  
phosphates, silicates, phyto-  
plankton volume and plant pigment  
value on the 10 fathom line  
from January to April during  
progressive rise and fall of  
upwelling to demonstrate the

Garrick, J.A.F. (1957) 570575  
Bull.Mus.comp.Zool.Harv., 116:171-90  
Studies on New Zealand Elasmobranchii.  
Part VI. Two new species of Etmopterus  
from New Zealand

M

570572  
(Card 2)  
latter's effect on near shore  
waters.

FAO:tjj

M

Garrod, D.J. (1957) 570576  
E.A.F.R.O. Pamphlet, (1)  
A review of Lake Victoria fishery  
service records 1951-1956

Brief survey of catch records and  
notes on individual species and fish  
landings taken by L.V.F.S.

swad

F



<p>Garrod, D.J. (1957) 570577  <u>Suppl. Publ. E. Afr. Fish. Res. Org.</u>, (2), 17 p.  An analysis of records of gillnet fishing in Pilkington Bay, Lake Victoria</p> <p>Describes results of fishing operations, Dec. 1954 to Nov. 1956, designed to assess the composition of fish populations</p>		<p>Gehringer, J.W. (1957) 570580  <u>Fish. Bull., U.S.</u>, 110:139-71  Observations on the development of the Atlantic sailfish <u>Istiophorus americanus</u> (Cuvier), with notes on an unidentified species of Istiophoridae</p> <p>Content as per title.</p>	
GLK:wad	F	FAO:efa	M
<p>Gasch, A. (1957) 570578  <u>Öst. Fisch.</u>, 10(6/7):80-90  Die Zatorer Methode der wirksamen Bekämpfung der Bauchwassersucht der Karpfen (The Zator method successfully applied against ascites of carp)</p> <p>Method described by Z. Rychlicki and St. Zarnecki in <u>Z. Fisch.</u></p>		<p>Goitler, L. (1957) 570581  <u>Biol. Rev.</u>, 32(3):261-95  Die sexuelle Fortpflanzung der pennaten Diatomeen (Sexual propagation of pennate Diatoms)</p> <p>Description of copulation mechanism, sex differentiation, sex determination and various developmental questions.</p>	
FAO:tl	F	FAO:tl	MF
<p>Gauld, D.T. (1957) 570579  <u>Nature, Lond.</u>, 179:325-6  A peritrophic membrane in calanoid copepods</p> <p>Discusses formation and function of membrane and describes structure and movements of mid-gut.</p>		<p>Geoghegan, M.J. (1957) 570582  <u>New Phytol.</u>, 56(1):71-80  The effect of some substituted methylureas on the respiration of <u>Chlorella vulgaris</u> var. <u>viridis</u></p> <p>Account of studies on the effect of composition of culture medium on inhibitory effects of the compounds on growth and respiration of this sp.</p>	
GLK:efa	MF	FAO:efa	F

George, E.A. (1957) 570583 <u>J.Mar.biol.Ass.U.K.</u> , 36(1):111-14 A note on <u>Stichococcus bacillaris</u> Naeg. and some species of <u>Chlorella</u> as marine algae Several strains of <u>Stichococcus bacillaris</u> Naeg. and of the marine <u>S. cylindricus</u> Butcher were all found to fit morphologically in Naegeli's species. Both the marine and non-marine strains grow well in either fresh- or sea-water media. <u>S. cylindricus</u> must therefore be regarded as a synonym of <u>S. bacillaris</u> . Three marine <u>Chlorella</u> strains including <u>C. ovalis</u> Butcher and <u>C. stigmatophora</u> Butcher were also found to be quite unexacting about salinity. The significance of small differences, particularly of growth rate, is discussed with regard to non-sexual organisms. HR:hr MF	George, M.G. (1957) 570586 <u>Curr.Sci.</u> , 26(12):398-9 On the swim-bladder of <u>Anabas testudineus</u> (Bloch) Anatomical description. FAO:glk F
George, F. (1957) 570584 <u>Proc.U.N.reg.cartogr.Conf.Asia and Far E.</u> , 2:85-9 Physical background surveys for a study of natural resources for agriculture MF	Gerking, S.D. (1957) 570587 <u>Ecology</u> , 38:219-26 A method of sampling the littoral macrofauna and its application The purpose of this work is to describe and test a method of separating the benthic macrofauna from the phytomacrofauna in the littoral zone of a lake, by removing the plants from a square frame and sampling the benthos in the same area with an Ekman dredge. FAO:sjh F
George, J.L., R.F. Darsie, Jr. and P.F. Springer (1957) 570585 <u>J.Wildlife Mgmt</u> , 21(1):42-51 Effects on wildlife of aerial applications of Strobane, DDT, and BHC to tidal marshes in Delaware A study to ascertain the effect on wildlife, if any, of the use of a new insecticide, Strobane, for mosquito control on tideland areas. Comparisons were made with DDT and BHC. Results were measured in terms of mortalities and of avoidance reaction of animals to presence of the insecticide. FAO:glk MF	Gessner, F. (1957) 570588 <u>VEB Deutscher Verlag der Wissenschaften, Berlin</u> , 426 p. Meer und Strand (The sea and the beach) Textbook on marine ecology with special emphasis on the North Sea and the Baltic. FAO:tl M

<p>Geyer, J.C. and G.T. Bryant. (1957) Paper presented at the <u>Thirty-Eighth Annual Meeting, Washington, D.C., April 29 - May 2, 1957</u> The travel time of radioactive wastes in natural waters</p>	570589	<p>Gibor, A. (1957) <u>Nature Lond.</u>, 179(4573):1304 Conversion of phytoplankton to zooplankton</p> <p>Determination of food coefficient of <u>Artemia</u> with different amounts of available food.</p>	570592
M	GLK:glk	M	
<p>Gibbs, R.H. (1957) <u>Tulane Stud.Zool.</u>, 5:175-203 Cyprinid fishes of the subgenus <u>Cyprinella</u> of <u>Notropis</u>. III. Variation and subspecies of <u>Notropis venustus</u> (Girard)</p> <p><u>Notropis venustus</u> is redescribed and its three subspecies <u>N. v. venustus</u>, <u>N. v. cercostigma</u> and <u>N. v. stigmaturus</u> are characterized and their synonyms given together with the distribution of their component five races.</p>	570590	<p>Giger, F. and W. Einsele (1957) <u>Öst.Fisch.</u>, 10(6/7):77-80 Bericht über den Fang einer riesigen Bachforelle, die Ergebnisse ihrer fischerici-biologischen Untersuchung und über eine Methode zur Wiederbelebung erstickter Fische (Report on the catch of giant trout (<u>Salmo fario</u>), the results of its biological examination, and a method for the reanimation of suffocated fish)</p> <p>Content as per title.</p>	570593
FAO:hr	F	FAO:efa	F
<p>Gibbs, R.H., Jr. (1957) <u>Deep-Sea Res.</u>, 4(4):230-7 A taxonomic analysis of <u>Myctophum affine</u> and <u>M. nitidulum</u>, two lantern-fishes previously synonymized, in the western North Atlantic</p> <p>Content as per title.</p>	570591	<p>Giletti, B.J. and F. Bazan (1957) Paper presented at the <u>Thirty-Eighth Annual Meeting, Washington, D.C., April 29 - May 2, 1957</u> Near-surface ocean circulation from tritium measurements</p>	570594
FAO:ofa	M		M



<p>Gilis, C. (1957) 570595  <u>Zeewetenschappelijk Instituut, Oostende,</u>  (1):30 p.  De Haringcampagne 1956-57 (24 juli 1956 -  19 januari 1957) (The herring season  1956-57 (24 July 1956 - 19 January 1957)).  <u>Fr</u></p> <p>Information on the fisheries and on  length, composition, weight, maturity  age, growth, vertebrae number of the  catch.</p> <p>GLK:hr M</p>	<p>Gladkov, N.A. (1957) 570598  <u>C.R.Acad.Sci.U.R.S.S., 112:159</u>  (New data concerning vertebrates of  Arctic Yakutia (the Tixy bay)). <u>Ru</u></p> <p>M</p>
<p>Gillard, A. (1957) 570596  <u>Résult.sci.Explor.hydrobiol.Tanganyika,</u>  3(6)  Rotifères (Rotifers)</p> <p>A catalogue of 62 species of rotifers  including three new species, 20 new  forms for the Belgian Congo fauna, and  several not previously recorded in  Africa.</p> <p>FiB:hr F</p>	<p>Glaessner, M.F. (1957) 570599  <u>Evolution, 11:178-84</u>  Evolutionary trends in crustacea  (Malacostraca)</p> <p>An outline of genetic relations and  their interpretation.</p> <p>GLK:hr MF</p>
<p>Gillman, T. and 570597  S.S. Naidoo (1957)  <u>Nature,Lond., 179(4566):904-5</u>  <u>In vitro</u> effects of heparin and calcium  ions on lipaemic serum</p> <p>Brief review of subject and account of  experiments on the clearing action of  heparin.</p> <p>GLK:efa F</p>	<p>Glover, R.C. (1957) 570600  <u>Penn.Angler, 26(3):2-6</u>  There are more smelt in Pennsylvania's  future</p> <p>History of introduction (<u>Osmerus mordax</u>),  life history, fishing, etc.</p> <p>GLK:wad F</p>

Godfrey, H. (1957) J.Fish.Res.Bd Canada, 14(2):153-64 Mortalities among developing trout and salmon ova following shock by direct-current electrical fishing gear	570601	Goel, P.S. et al. (1957) Deep-Sea Res., 4(3):202-10 The beryllium-10 concentration in deep-sea sediments	570604
Account of tests to establish precautionary measures to prevent damaging eggs when using such apparatus in waters of similar conductivity.		The cosmic-ray-produced radioactive isotope, $^{10}\text{Be}$ (half-life 2.7 million years) has been discovered in the upper and lower portions of a 15 m long core from the sediment of the Pacific Ocean. A comparatively simple chemical procedure for its extraction has been developed.	
GLK:efa	F	GLK:tl	M
Godfrey, H. (1957) Progr.Rep.Atl.Cst Sta., (67):19-22 Feeding of eels in four New Brunswick salmon streams	570602	Gokhale, S.V. (1957) Indian J.Fish., 4(1):92-112 Seasonal histological changes in the gonads of the whiting ( <u>Gadus merlangus</u> L.) and the Norway pout ( <u>G. esmarkii</u> Nilsson)	570605
Electrical sampling carried out 7-8/52; stomach contents analysis; eels as predators on salmon fry.		Macroscopic description, general histology and internal changes in the gonads during the reproductive cycle; with discussion of interstitial tissue, origin of germ cells and spermatogenesis in the testes and of the "corpus luteum" and follicular degeneration in the ovary; sea temperature and development of gonadal tissue.	
FAO:sjh	MF	GLK:glk	M
Goedecke, E. (1957) Seewart, 18:9-22 Das merkwürdige Verhalten der Eiswinter 1953/54 bis 1955/56 (The remarkable behaviour of the ice-winters 1953/54-1955/56)	570603	Golvan, Y.J. (1957) Résult.sci.Explor.hydrobiol.Kivu, <u>Eduard and Albert</u> , 3(2):53-64 Acanthocephala des poissons (Acanthocephala of fishes)	570606
	MF		F

Gong, J.K. et al. (1957)	570607	Gordan, J. (1957)	570610
<u>Proc.Soc.exp.biol.Med.</u> , 95:451-4		<u>Bull.Amer.Mus.nat.Hist.</u> , 112(4):279-393	
Uptake of fission products and neutron-induced radionuclides by the clam		A bibliography of the order Mysidacea	

1180 refs. from 1776 to end of 1955, arranged alphabetically by authors, and indexed by genera (grouped in families and including cross-references to synonyms) and by ten general subjects (including "Distribution" subdivided into "Fresh and brackish water" and "Oceanic" and then further into geographical regions).

M

:sjh

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Gonse, P.H. (1957)	570608	Gordon, I. (1957)	570611
<u>Biochim.biophys.Acta</u> , 24:267-278		<u>Bull.Brit.Mus.(Zool.)</u> , 5(2):29-47	
L'ovogenèse chez <u>Phascolosoma vulgare</u> .		On <u>Spelaeogrampus</u> , a new cavernicolous	
III. Respiration exogène et endogène de l'ovocyte - Effet de l'eau de mer (Ovogenesis in <u>Phascolosoma vulgare</u> .		crustacean from South Africa	
III. Exogenous and endogenous respiration of oocytes. Effect of sea water)			

The oxygen consumption of the coelomic oocytes, at all stages of their growth, have been studied with the diver technique. Three levels of oxidation have been recognized: endogenous respiration, fundamental respiration, and extra-respiration. The significance of exogenous and endogenous conditions in oocytes and eggs is discussed.

FAO:glk

M

F

Gorbman, A. (1957)	570609	Gordon, M. (1957)	570612
<u>Copeia</u> , (1):41-3		In "The Physiology of Fishes". Vol. II.	
The thyroid gland of <u>Typhlomolge rathbuni</u>		Behaviour. Edited by M.E. Brown,	
		Academic Press Inc., Publishers,	
		New York, pp. 431-501	
The finding of nearly 100 thyroidal follicles in each of two <u>Typhlomolge</u> shows that the species is not athyroid as indicated by other authors. On morphological grounds the thyroidal tissue appears inactive.		Physiological genetics of fishes	

HR:hr

F

FAO

MF

Gordon, M.S. (1957) 570613  
Biol.Bull., Wood's Hole, 112(1):28-33  
Observations on osmoregulation in the  
Arctic char (Salvelinus alpinus L.)

Data are presented on plasma freezing  
point, chloride and potassium, muscle  
solids, chloride, and potassium.  
Physiological differences between  
populations of char are indicated.

FAO:glk

F

Gordon, S.M. and 570614  
R.H. Backus (1957)  
Copeia, (1):17-20  
New records of Labrador fishes with  
special reference to those of Hebron  
Fjord

Distributional and systematic notes on  
the species collected with remarks on  
the relative abundances of fishes in  
Hebron Fjord.

HR:hr

MF

Goreau, T. (1957) 570615  
Paper presented at the Inter-Island  
Marine Biological Conference, March 31-  
April 6, 1957  
Calcification in reef corals

Preliminary investigations to determine  
calcification rates under conditions  
varying as to light intensity;  
examination of the role of Zooxanthellae  
and carbonic anhydrase.  
Abstract in "Report by the Institute of  
Marine Biology, University of Puerto  
Rico".

HR:glk

M

Gorham, E. (1957) 570616  
Limnol.Oceanogr., 2(1):12-21  
The chemical composition of lake waters  
in Halifax County, Nova Scotia

Analyses for concentrations of total  
ions, Na, K, Ca, Mg, HCO<sub>3</sub>, Cl, SO<sub>4</sub>, and  
dissolved organic carbon, as well as  
optical density, pH, and specific con-  
ductivity, are presented for twenty-three  
surface lake waters collected from  
heathy spruce forest in Halifax County,  
Nova Scotia, during December 1955.  
Main factors governing chemical  
composition are discussed.

HR:glk

F

Gorham, E. (1957) 570617  
Limnol.Oceanogr., 2(1):22-7  
The ionic composition of some lowland  
lake waters from Cheshire, England

Analyses are presented for the major  
dissolved constituents in waters from  
nine Cheshire meres. Degree of chemical  
aberrance of two of these lakes is  
discussed.

HR:glk

F

Gorman, J. (1957) 570618  
Copeia, (2):148-50  
Recent collections of the California  
limbless lizard, Anniella pulchra

Reports collections that fill gaps in  
distribution, extend the range, and  
allow comment on biosystematics.

HR:efa

F



Gorsky, B. (1957) 570619  
Little, Brown and Company, Boston and  
Toronto, 305 p.  
Vastness of the sea

M

Gottlieb, E. (1957) 570622  
Fish.Bull., Haifa, (11):13-5, 18-20  
(Age and growth studies of the yellow  
striped mullet (Upeneus moluccensis)).  
Iw En

Study of otoliths and length frequencies  
in Eastern Mediterranean trout catches,  
1955 and 1956. Proposal for mesh  
regulation.

SJH:sjh

M

Gosner, L.G. and 570620  
I.H. Black (1957)  
Copeia, (1):31-6  
Larval development in New Jersey Hylidae

Study of the variation in diagnostic  
characters of larvae of Acris gryllus,  
crepitans, Pseudacris nigrita feriarum,  
Hyla andersoni, H. crucifer, H. versi-  
color versicolor.

HR:hr

F

Gotto, R.V. (1957) 570623  
Irish Nat.J., 12:138  
A cyclopoid copepod new to British  
waters, with a note on its structure

Lichomolgus marginatus on Ascidia  
virginea in Strangford Lough, Co. Down.

:jae

F

Gottlieb, E. (1957) 570621  
Bergen (typescript)  
On the dynamics of the population of coal-  
fish, Gadus virens L. in Norwegian waters.  
A report on the investigations carried out  
in the Institute of Marine Research in  
Bergen as a holder of UNESCO Fellowship  
in Marine Biology

A report on a review of data filed at the  
Institute of Marine Research, Bergen,  
Norway. Yields; reproduction, growth and  
mortality rates; long-term assessments  
of yield as functions of fishing  
intensity and selectivity.

SJH:sji.

M

Gougenheim, M.A. (1957) 570624  
Int.hydr.Rev., 34(2):103-10  
Un astrolabe à prisme de haute précision  
(A prism astrolabe of high precision)

Description of the apparatus.

FAO:glk

M

<p>Government Guano Islands Division (1957) <u>Comm.Industr.</u>, 15:299-312 Annual report for the period 1st September, 1955 to 31st August, 1956</p> <p>Reports on guano production and distribution, sealing, penguins and protection of seabirds and seals.</p> <p>FAO:sjh</p>	<p>570625</p> <p>M</p>	<p>Grainger, J.N.R. (1957) <u>Irish Nat.J.</u>, 12(5):129-31 Further observations on the planktonic copepods of Irish lakes</p> <p>Species of <u>Diaptomus</u> in Cork and Kerry lakes.</p> <p>:jae</p> <p>F</p>
<p>Graham, J.B. et al. (ed.) (1957) <u>American Association for the Advancement of Science</u>, Washington 5, D.C., 141 p. Water for industry</p> <p>MF</p>	<p>570626</p>	<p>Grassl, E.F. (1957) <u>Progr.Fish Cult.</u>, 19(2):85-8 Possible value of continuous feeding of medicated dry diets to prevent and control pathogens in hatchery-reared trout</p> <p>Describes results obtained in treating furunculosis in <u>Salvelinus fontinalis</u> with Aureomycin</p> <p>WAD:wad</p> <p>F</p>
<p>Graham, M. (1957) <u>Nature, Lond.</u>, 180:410 Dr. Harold Thompson</p> <p>An obituary, with a review of his contributions to fisheries and marine sciences.</p> <p>GLK:sjh</p>	<p>570627</p> <p>M</p>	<p>Graves, M.E. (1957) <u>Bol.Comp.adm.Guano</u>, 33(7):5-6 El año 1955 - Anomalías en el tiempo de superficie sobre las costas del Pacífico en 1955 (The year 1955 - Anomalies in the surface weather on the Pacific coast in 1955)</p> <p>A meteorological study encompassing analyses of temperatures and winds in western South America.</p> <p>FAO:hr</p> <p>M</p>

Gray, I.E. (1957) 570631  
Biol.Bull., Wood's Hole, 112(1):34-42  
A comparative study of the gill area of crabs

A comparative study has been made of the size of the gill areas of 16 spp. of brachyuran crabs from six families and representing land, intertidal, and wholly aquatic habitats. The size of the gill area is correlated with both habitat and metabolic activity.

FAO:glk

MF

Green, J. (1957) 570634  
New Biol., 23:48-64  
Daphnia - The water flea

Review of the morphology, life history and behaviour of Daphnia.

GLK:tl

F

Green, J. (1957) 570632  
J.Mar.biol.Ass.U.K., 36(1):41-7  
The growth of Scrobicularia plana (Da Costa) in the Gwendraeth estuary

Populations of Scrobicularia plana with densities up to 1025 per m<sup>2</sup> are found in the Gwendraeth estuary. In a region where the population density was about 500 per m<sup>2</sup> it was found that some specimens lived for 16-18 years and reached a length of 54 mm. An approximate growth curve is given. There is very little successful settlement of spat in the sampling area.

HR:hr

MF

Greenbank, J. (1957) 570635  
Copeia, (2):157  
Aggregational behaviour in a freshwater sculpin

Account of observation on the congregation of Cottus aleuticus in Karluk Lake, Kodiak Island.

HR:efa

F

Green, J. (1957) 570633  
Nature, Lond., 179:432  
Osmoregulation in Asplanchna priodonta

Time per contraction of the complex contractile vesicle of this rotifer lengthens with increasing salinity.

GLK:glk

F

Greenbank, J. (1957) 570636  
Spec.sci.Rep.U.S.Fish Wildl.Serv., (202):59 p.  
Creel census on the upper Mississippi river

Presents the data obtained from the census and the analysis of these with regard to catch composition, fishing success, and the influence of certain factors (fishing pressure, bait, time of day, sex of fishermen, water temperature, changes in water level, weather, depth of snow).

FAO:glk

F

Greenwood, M.R. (1957) Comm.Fish.Rev., 19:1-10 Bottom trawling exploration in the Strait of Juan de Fuca - February to March 1956	570637	Grenager, B. (1957) Nytt Mag.Bot., 5:41-60 Algological observations from the polluted area of the Oslofjord	570640
Some clear trawling areas were found but results were generally poor. Dogfish ( <u>Squalus suckleyi</u> ) and ratfish ( <u>Hydrolagus colliei</u> ) dominated the catch but some lingcod ( <u>Ophiodon elonga- tus</u> ) and cod ( <u>Gadus macrocephalus</u> ) were caught together with a few rockfish ( <u>Sebastes</u> sp.) and flatfishes. Four species of shrimp ( <u>Pandalus</u> sp.) were caught by beam trawl in small quantities.		Investigation on the pollution tolerance by different species of sessile algae. (Incl. notes on hydrography and pollution, floral associations and horizontal distribution of species).	
FAO:sjh	M	FAO:tl	M
Greenwood, P.H. (1957) Bull.Brit.Mus.(Nat.Hist.)Zool., 5:76-97 A revision of the Lake Victoria <u>Haplo- chromis</u> species (Pisces: Cichlidae) - Part II. <u>H. sauvagei</u> (Pfeffer), <u>H. prodromus</u> (Trewavas), <u>H. granti</u> Blgr. and <u>H. xenognathus</u> sp. n.	570638	Griliches, Z. (1957) J.Fm Econ., 39(1):8-20 Specification bias in estimates of production functions	570641
		Describes application of method relevant to problems of fisheries management.	
	F	FAO:sjh	MF
Greenwood, P.H. (1957) Uganda J., 21 The fishes of Uganda - III	570639	Grimes, E.D. (1957) Idaho Wildl.Rev., 9(5):10-3 Trout diet requirements	570642
		Popular article on natural foods and hatching feeding.	
	F	WAD:sjh	F



<p>Grisebach, H., R.C. Fuller (1957) 570643  and M. Calvin (1957)  <u>Biochim.biophys.Acta</u>, 23(1):34-42  Metabolism of thioctic acid in algae</p> <p>Thioctic acid labelled with sulphur-35 has been prepared and its metabolism by algae has been studied. It is converted by the algae into a number of forms, all of which upon hydrolisis will yield either the disulfide or its sulfoxide.</p> <p>FAO:glk MF</p>	<p>Grusov, E.N. (1957) 570646  <u>Zool.Zh.</u>, 36(6):852-62  A new endoparasitic mollusc - <u>Melpadicola orientalis</u>, gen. n., sp. n., (Family Paedophoropodidae)</p> <p>Morphological description of the mollusc and discussion of its taxonomic status.</p> <p>FAO:glk M</p>
<p>Grosmaire, P. (1957) 570644  <u>Bois For.Trop.</u>, 54  La pêche sur le fleuve Sénégal (Fisheries on the Senegal River)</p> <p>F</p>	<p>Guareschi, C. (1957) 570647  <u>Ric.sci.</u>, 27:2140-3  La Stazione di Biologia Marina del Tirreno dell'Università di Cagliari (The Marine Biological Station of the Tyrrhenian Sea, Cagliari University)</p> <p>Describes the location, equipment and current programme (in planktonology) of the station and projected investigations.</p> <p>FAO:glk M</p>
<p>Gross, W.J. (1957) 570645  <u>Biol.Bull.</u>, Wood's Hole, 112(1):43-62  An analysis of response to osmotic stress in selected decapod Crustacea</p> <p>Determinations on <u>Birgus latro</u> Linn., <u>Emerita analoga</u>, Rathbun, and <u>Pachygrapsus crassipes</u> Randall. Describes osmo-regulation as a function of time; discusses evidence on various osmo-regulatory mechanisms and the metabolic work in increased osmotic stress.</p> <p>FAO:glk MF</p>	<p>Gudimovich, P.K. (1957) 570648  <u>Priroda, Moskva</u>, 3:127  Godovoi ratsion tuntsy v Chernom more (Annual consumption of food by tunny in the Black Sea)</p> <p>FAO M</p>

<p>Guerrier, J.P. and W.L. Schultz (1957) <u>Bull.Can.Wildl.Mgmt</u>, 3(5), 12 p. Studies of lake trout and common white- fish in Waterton Lakes, Waterton Lakes National Park, Alberta</p> <p style="text-align: right;">570649</p> <p style="text-align: center;">F</p>	<p>Guilcher, A. (1957) 570652 <u>Norois</u>, 4(15) Quelques aspects et problèmes morpholo- giques et sédimentologiques de l'île d'Ouessant (Some morphologic and sedimental aspects and problems of Ouessant Island)</p> <p style="text-align: center;">M</p>
<p>Gug, M. (1957) 570650 <u>Quart.Bull.S.Pacif.Comm.</u>, 7(3):19-21 Mother-of-pearl industry in French Oceania</p> <p style="text-align: center;">M</p>	<p>Gulf States Marine Fisheries 570653 Commission (1957) <u>New Orleans 16, Louisiana</u>, 33 p. Eighth annual report 1956-1957 to the Congress of the United States and to the governors and legislators of Alabama, Florida, Louisiana, Mississippi, Texas</p> <p>Lists of commissions and committee members; financial statement; account of pertinent research activities by the commission itself and by the States and the U.S. Fish and Wildlife Service.</p> <p>FAO:sjh</p> <p style="text-align: center;">M</p>
<p>Guignot, F. (1957) 570651 <u>Résult.sci.Explor.hydrobiol.Kivu</u>, Edouard and Albert, 3(2):131-69 Haliplidae et Dytiscidae (Coleoptera hydrocanthares)</p> <p style="text-align: center;">F</p>	<p>Gulland, J. (1957) 570654 <u>Fish.Bull.F.A.O.</u>, 10(4):157-81 Sampling problems and methods in fisheries research</p> <p>A simple introduction to the principles of tackling sampling problems as they arise in fish population studies, particularly with regard to the catches of commercial vessels, and their size and age compositions. Some other problems likely to be met in fisheries biological studies are touched on, but the principles discussed are generally applicable.</p> <p>SJH:sjh</p> <p style="text-align: center;">MF</p>

<p>Gunter, G. (1957) 570655  <u>Copeia</u>, (1):13-6  Predominance of the young among marine fishes found in fresh water</p> <p>Marine fishes in low salinities are smaller than those of the same species in saltier waters and constitute the invaders of fresh water. Differences in the relations of young and old animals to salinity of the water must be taken into account in studies of euryhalinity.</p> <p>HR:hr MF</p>	<p>Gunter, G. and 570658  R.W. Menzel (1957)  <u>Nautilus</u>, 70(3):84-7  The crown conch, <u>Melongena corona</u>, as a predator upon the Virginia oyster</p> <p>Predation on <u>Crassostrea virginica</u> on U.S.A., Atlantic coast; mode of feeding on this and other species; observations by fishermen and in aquaria.</p> <p>FiB:sjh M</p>
<p>Gunter, G. (1957) 570656  <u>Sea Frontiers</u>, 3:80-6  Mississippi's only marine laboratory</p> <p>Description of the Gulf Coast Research Laboratory, Ocean Springs, and its activities.</p> <p>HR:tl M</p>	<p>Haga, S. et al. (1957) 570659  <u>Bull.Hokkaido reg.Fish.Res.Lab.</u>, 15:23-28  (Growth and age determination of "Komai", <u>Eleginus gracilis</u> (Tilesius)). <u>Ni</u>  En</p> <p>Samples of trawlers catch in Hokkaido, winter 1950-51. Growth in length and weight estimated from length frequency distribution and scale and otolith rings.</p> <p>FAO:sjh M</p>
<p>Gunter, G. (1957) 570657  <u>System.Zool.</u>, 6:98-100  Misuse of generic names of shrimp (Family Penaeidae)</p> <p>A discussion of the spelling of the generic name <u>Penaeus</u>.</p> <p>HR:lr M</p>	<p>Hagen, W., Jr. (1957) 570660  <u>Progr.Fish Cult.</u>, 19(1):32-9  Fish foods purchased for federal hatcheries in 1955, compared with 1945 and 1949</p> <p>A review showing increasing emphasis on use of dry meals, fish products and pellets for salmonid feeding.</p> <p>WAD:wad F</p>

Hagerman, D.D., F.M. Wellington 570661  
and C.A. Villee (1957)  
Biol.Bull., Wood's Hole, 112:180-3  
Estrogens in marine invertebrates

Describes enzymatic method of assay for  
estrogens suitable for use with crude  
tissue extracts. States that only the  
ovaries of Mactra (Spisula) solidissima  
contain estrogenic material.

FAO:efa

M

Hagihara, B. et al. (1957) 570662  
Nature, Lond., 179(4553):249-50  
Crystallization of cytochrome c from  
fish

Techniques of preparation from heart  
muscle of Katsuwonus vagans, and  
Thynnus alalunga. Properties are  
described.

GLK:glk

M

Haines, R.G. (1957) 570663  
World Fish., October 1957,:84-6  
Asdics for fish detection. Part I

First part of an ill. article which  
defines problems and possibilities of  
horizontal echo-ranging from fisher-  
man's point of view.

SJH:sjh

M

Halc, L.J. (1957) 570664  
Proc.R.phys.Soc.Edinb., 26(1):19-24  
The problem of keeping marine animals

The normal environment of marine animals  
is surveyed particularly from the point  
of view of their being kept in  
captivity, and a successful aquarium is  
described.

SJH:sjh

M

Hall, J.C. and 570665  
H.I. Battle (1957)  
Canad.J.Res.(Zool.), 35(5):593-601  
Respiratory movements and endurance of  
frogs at low pressures

Contains the results of investigations  
of Rana pipiens, R. clamitans and R.  
sylvatica respiratory movements under  
reduced pressure, endurance at various  
pressures at normal atmospheric  
pressure, and reduced partial pressure  
of oxygen.

FAO:hr

F

Halldal, P. (1957) 570666  
Nature, Lond., 179:215-6  
Calcium and magnesium ions in phototaxis  
of motile green algae

Quantitative investigations on the  
effect of Ca++ on the negative  
phototaxis and Mg++ on the positive  
ion. The Ca/Mg ratio where no  
phototactic movement occurs is also  
determined.

GLK:tl

F



Hallock, R.J., D.H. Fry, Jr. 570667  
and D.A. La Faunce (1957)  
Calif. Fish Game, 43:271-98

The use of wire fyke traps to estimate  
the runs of adult salmon and steelhead  
in the Sacramento river

III. description of construction and  
operation of the traps for Oncorhynchus  
tshawytscha and Salmo g. gairdneri.

Catches of these and other spp. per  
unit effort.

SJH:sjh

F

Halver, J.E. (1957) 570668  
J. Nutrit., 62:225-43

Nutrition of salmonoid fishes. III.  
Water-soluble vitamin requirements of  
chinook salmon

Feeding experiments on Oncorhynchus  
tshawytscha.

FAO:sjh

MF

Hamdorf, K. (1957) 570669  
Kurze Mitt. Inst. Fisch Biol. Univ. Hamburg,  
(7):1-22

Das allometrische Wachstum der  
Wirbelsäule der Heringslarve sowie  
dessen Auswirkung auf die Verlagerung  
der paarigen und unpaarigen Flossen  
(The allometric growth of vertebrae  
in herring larvae and its influence on  
the shifting of paired and unpaired  
fins)

Analysis of the absolute length of  
groups of vertebrae in fish of various  
sizes from 29.5 mm to 200.0 mm, with  
comparison of the growth revealed and  
of the shift in relative position of all  
fins presumably induced by the  
demonstrated allometry.

FAO:glk

M

Hamilton, E.L. (1957) 570670  
Sci. Mon., N.Y., 85:294-314

The last geographic frontier: the sea  
floor

Illustrated review of sea-bed studies;  
gravity seismic and heat flow  
measurements; features of the Atlantic  
and Pacific floors described; trenches,  
fracture zones, seamounts and ranges;  
coral atoll formation; deep-sea  
stratigraphy; free diving; deep-sea  
photography; the bathyscaphe; biblio-  
graphy of 70 references.

FAO:sjh

M

Hamming, R.W. (1957) 570671  
Sci. Mon., N.Y., 85:169-75  
Controlling the digital computer

An account of the possibilities of their  
use; popularization of communications  
theory; coding theory and programming.

FAO:sjh

MF

Hammond, R.J. (1957) 570672  
H.M.S.O. and Longmans, Green and Co.,  
848 p.

Food

Includes survey of fish production and  
consumption in Britain, 1939-1945.

FAO:sjh

MF

Hamon, M. (1957) 570673  
Bull.Soc.Hist.nat.Afr.N., 48(3-4):221-33  
 Note sur Janickina pigmentifera (Grassi 1881) amibe parasite du segment génital mâle de Sagitta (A note on Janickina pigmentifera (Grassi 1881) amoeba parasite of the male genital segment of Sagitta)

An investigation of the pigments characteristic of the species.

FAO:hr

M

Hanks, J.E. (1957) 570674  
Biol.Bull.Wood's Hole, 112(3):330-5  
 The rate of feeding of the common oyster drill, Urosalpinx cinerea (Say), at controlled water temperatures

Laboratory investigation on the influence of the temperature on the intensity of feeding.

FAO:t1

M

Hanna, H.M. (1957) 570675  
Proc.R.Ent.Soc.Lond., (A), 32:47-52  
 Observations on case-building by the larvae of Limnephilus politus McLachlan and L. marmoratus Curtis (Trichoptera: Limnephilidae)

The case of L. politus is started by the construction of a belt; that of L. marmoratus by a ventral plate and square. The growth of the case parallels that of the larva and increase in size is achieved by adding to the anterior end and cutting away from the posterior end.

:jae

F

Harden Jones, F.R. (1957) 570676  
 In "The Physiology of Fishes". Vol.II. Behaviour. Edited by M.E. Brown, Academic Press Inc., Publishers, New York, pp. 305-22  
 The swimbladder

FAO

MF

Harding, J.P. (1957) 570677  
Résult.sci.Explor.hydrobiol.Tanganyika, 3(6):53-8  
 Crustacea: Cladocera

A systematic account of the species from lake Tanganyika, lake Kivu and a pond near lake Edward.

FiB:hr

F

Hargis, W.J., Jr. (1957) 570678  
Limnol.Oceanogr., 2(1):41-2  
 A rapid live-sexing technique for Urosalpinx cinerea and Eupleura caudata, with notes on previous methods

Describes the technique and methods of testing its reliability.

HR:glk

MF

Harmer, S.F. (1957) 570679  
Monogr. Uitkomst. Zool. Gebied Nederl. O.-  
Indie, 38:641-1147 (Leiden: E.J. Brill)  
 The Polyzoa of the SIBOGA expedition.  
 Part 4: Cheilostomata Ascophora, II  
 (Ascophora, except Reteporidae, with  
 additions to Part II, Anasca)

M

Hart, J.S. (1957) 570682  
Canad. J. Res. (Zool.), 35:195-200  
 Seasonal changes in CO<sub>2</sub> sensitivity and  
 blood circulation in certain freshwater  
 fishes

Asphyxiation level of oxygen at various  
 levels of CO<sub>2</sub> on the Micropterus salmoi-  
des, Ictalurus lacustris punctatus and  
Ameiurus nebulosus marmoratus decreased  
 with warming of the water; blood  
 pressure of the first two species fell  
 with seasonal change from winter to  
 summer temperature.

FAO:hr

F

Harris, K.E. (1957) 570680  
Int. hydr. Rev., 34(2):111-5  
 Navigation par perspective (Navigation  
 by perspective)

Principle and practical details of the  
 system.

Hartman, O. (1957) 570683  
Allan Hancock Pacif. Exped., 15(3):211-  
 393  
Orbiniidae, Apistobranchidae, Paraonidae  
 and Longosomidae

Discussion of the systematic with notes  
 on the ecology, geographic distribution,  
 reproduction and development.

FAO:glk

M

FAO:t1

M

Harrison, A.C. (1957) 570681  
Cape Peninsula Publicity Ass. and Cape  
Piscatorial Soc., Cape Town, 16 p.  
 Freshwater fishing in the Cape south  
 western districts, South Africa (with  
 notes on the eastern Cape)

F

Harvey, E.N. (1957) 570684  
 In "The Physiology of Fishes". Vol. II.  
 Behaviour. Edited by M.E. Brown,  
 Academic Press Inc., Publishers,  
 New York, pp. 345-66  
 The luminous organs of fishes

FAO

MF

Harvey, H.W. (1957) 570685  
J.Mar.biol.Ass.U.K., 36(1):157-60  
Bio-assay of nitrogen available to two  
species of phytoplankton in an off-shore  
water

A bio-assay of the nitrogen which was  
available to two phytoplankton species  
with their associated bacteria in an off-  
shore water is described. Of the organic  
nitrogen normally present in solution in  
sea water, an insignificant quantity  
appears to be available to the plant-  
bacteria community.

HR:tl M

Hase, E., Y. Morimura 570686  
and H. Tamiya (1957)  
Arch.Biochem., 69:149-65  
Some data on the growth physiology of  
Chlorella studied by the technique of  
synchronous culture

F

Hasler, A.D. (1957) 570687  
In "The Physiology of Fishes". Vol.II.  
Behaviour. Edited by M.E. Brown,  
Academic Press Inc., Publishers,  
New York, pp. 187-209  
The sense organs. Part III. Olfactory  
and gustatory senses of fishes

FAO

MF

Hasler, A.D., W.J. Wisby 570688  
and J.A. Larsen (1957)  
Res.Rev.U.S.Off.nav.Res., Anniversary  
Issue, :32-5  
Salmon, science, and a sense of smell

Popular review of the migration  
problems of Pacific salmon.

WAD:tl MF

Haslett, A.W. (1957) 570689  
Sci.News, Harmondsworth, (43):114-5  
Research report

Brief account of findings regarding  
"Choice of spawning sites by trout"  
reported by T.A. Stuart (1956).

GLK:tl

F

Haslett, A.W. (1957) 570690  
Sci.News, Harmondsworth, (45):115-7  
Research report - Below the Gulf Stream

Review of the article in Admiralty  
Bulletin, (90), May, 1957. Note on  
deep current measurements in the  
Gulf Stream system.

GLK:tl

M



Hatch, R.W. (1957) 570691  
N.Y. Fish Game J., 4(1):69-87  
Success of natural spawning of rainbow trout in the Finger Lakes region of New York

F

Haven, D.S. (1957) 570694  
Ecology, 38:88-97  
Distribution, growth and availability of juvenile croaker, Micropogon undulatus, in Virginia

Gives statistical examination of reliability of catch data. Presents and discusses evidence on place and time of spawning, growth, seasonal variations in the pattern of distribution, and on absolute abundance.

GLK:glk

M

Hatch, R.W. (1957) 570692  
Progr. Fish Cult., 19(2):89-91  
Relative sensitivity of salmonids to DDT

Describes experiments using Salmo salar, S. gairdneri and Salvelinus fontinalis.

WAD:wad

F

Hayes, F.R. (1957) 570695  
J. Fish. Res. Bd Canada, 14(1):1-32  
On the variation in bottom fauna and fish yield in relation to trophic level and lake dimension

Examination of the relation of area to depth. Discussion of the ways of studying fish productivity in lakes, and of trophic levels with reference to length of food chain. Examination of productivity index and of a proposed quality index, and of the relation between depth and productivity.

GLK:glk

F

Hauge, H.V. (1957) 570693  
Folia limnol. scand., (9):189 p.  
Vangsvatn and some other lakes near Voss - A limnological survey in western Norway

Report on an intensive survey covering a whole year: methods, descriptive and comparative limnology. Contains a bibliography of literature on Norwegian lakes up to 1st January 1957.

FAO:wad

F

Haysom, N.M. (1957) 570696  
Ichthyol. Notes, 1:139-44  
Notes on some Queensland fishes

Short notes on species new to Queensland. The new species Ichthyoscopus fasciatus is described; three species are added to the Australian list.

GLK:hr

M

Heady, E.O. (1957) 570697  
J.Fm Econ., 39:360-9  
Organization activities and criteria in  
obtaining and fitting technical  
production functions

Incl. comments on initiating cooperative  
research between economists and physical  
scientists and considerations in  
selecting algebraic forms of functions.

FAO:efa

MF

Heezen, B.C. (1957) 570700  
Paper presented at the Thirty-Eighth  
Annual Meeting, Washington, D.C.  
April 29 - May 2, 1957  
Deep-sea physiographic provinces and  
crustal structures

M

Healey, E.G. (1957) 570698  
In "The Physiology of Fishes". Vol.II.  
Behaviour. Edited by M.E. Brown,  
Academic Press Inc., Publishers,  
New York, pp. 1-119  
The nervous system

FAO

MF

Hofer, B. (1957) 570701  
Fish.Bull., Haifa, (14):10-1  
(Limnological research in Britain and  
its practical application). Iw

SJH

F

Heezen, B.C. (1957) 570699  
Deep-Sea Res., 4:105-15  
Whales entangled in deep sea cables

Fourteen instances of whales entangled  
in submarine cables are reported.  
Six cases occurred in about 500  
fathoms, with 620 fathoms the maximum  
depth reported. All positively  
identified were sperm whales (Physeter  
catodon).

FAO:glk

M

Hela, I. (1957) 570702  
Geophysica, Helsinki, 5(3)  
Longitudinal and transversal slope of  
the Florida current

Relation between transverse slope of  
sea surface and mean speed of current is  
combined with Torricelli's theorem.  
It is shown that the mean speed of the  
Florida current gives both the normally  
accepted transversal height difference  
and longitudinal height difference.

:tl

M

Hela, I., C.A. Carpenter, Jr. 570703  
 and J. Kneeland McNulty (1957)  
Bull.Mar.Sci.Gulf.Caribb., 7(1):47-99  
 Hydrography of a positive, shallow,  
 tidal bar-built estuary (Report on the  
 hydrography of the polluted area of  
 Biscayne Bay)

Hydrographic surveys of the estuary  
 with special emphasis on the flushing.

FAO:tl

MF

Henderson, I.F. and 570706  
 W.D. Henderson (1957)  
Princeton, N.J., 548 p.

A dictionary of scientific terms

Pronunciation, derivation, and  
 definition of terms in biology,  
 botany, zoology, anatomy, cytology,  
 genetics, embryology, physiology.

:sjh

MF

Hemphill, A.F. (1957) 570704  
Copeia, (1):53  
 The southern redbelly dace, Chrosomus  
erythrogaster erythrogaster, from the  
 lower Mississippi river drainage

Reports collections that extend the  
 southern range of this sub-species  
 and states association with large  
 numbers of Campostoma anomalum and  
Semotilus atromaculatus.

HR:efa

F

Hennemuth, R.C. (1957) 570707  
Bull.interam.trop.Tuna Comm., 2(5):  
 174-243

An analysis of methods of sampling to  
 determine the size composition of  
 commercial landings of yellowfin  
 tuna (Neothunnus macropterus) and  
 skipjack (Katsuwonus pelamis)

Compares estimates obtained by  
 different sampling methods and  
 recommends the most efficient  
 method for future sampling.

FAO:hr

M

Henderson, G.T.D. (1957) 570705  
Bull.Mar.Ecol., 4:180-202  
 Continuous plankton records: The  
 distribution of young Gadus poutassou  
 (Risso)

Study of range, seasonal distribution,  
 abundance fluctuations and systematics  
 of young stages and eggs of 1212  
 specimens taken March-May.

FAO:sjh

M

Henriksson, E. (1957) 570708  
Physiol.Plant., 10(5):943-8  
 Studies in the physiology of the lichen  
Collema. I. The production of extra-  
 cellular nitrogenous substances by  
 the algal partner under various  
 conditions

Laboratory experiments (culture) to  
 determine the excretion of combined  
 nitrogen by symbiotic algae (Nostoc sp.),  
 isolated from the lichen (Collema tenax)  
 when the algae is growing with and  
 without nitrate under different  
 conditions.

FAO:tl

F



<p>Hepper, B.T. (1957) 570709  <u>J.Mar.biol.Ass.U.K.</u>, 36(1):33-40  <u>Notes on <i>Mytilus galloprovincialis</i></u>  <u>Lamarck in Great Britain</u></p> <p>Summarizes the chief distinguishing features of <i>Mytilus galloprovincialis</i> in comparison with <i>M. edulis</i> and discusses the synonymy of the species.</p>		<p>Herrera, J. and F. Muñoz (1957) 570712  <u>Invest.pesq.</u>, 7:33-48  <u>Consideraciones biológicas sobre la composición química de la sardina (<i>Sardina pilchardus</i> Walb.) de Castellón</u> (Biological considerations on the chemical composition of the sardine of Castellón). En</p> <p>Composition was determined from 70 samples, each of 40 specimens, taken during three and a half years. The fish were all between 125 and 135 mm. Relation between fat content and sexual development was studied, as was the relation between hydration of the proteins and the temperature of surface waters.</p>	
HR:hr	M	FAO:glk	M
<p>Herdman, H.F.P. (1957) 570710  <u>Deep-Sea Res.</u>, 4:130-7  <u>Recent bathymetric charts and maps of the Southern Ocean and waters around Antarctica</u></p> <p>Some recent bathymetric charts and maps of the Southern or Antarctic Ocean are discussed and some comparisons made between the various interpretations of the relief of the ocean floor. Reference is made to the nomenclature of features on the sea bed, and also to certain aspects of the continental shelf of Antarctica.</p>		<p>Hersey, J.B., et al. (1957) 570713  <u>Paper presented at the Thirty-Eighth Annual Meeting, Washington, D.C., April 29 - May 2, 1957</u>  <u>Seismic study of the ocean floor south-east of the Blake Plateau</u></p>	
FAO:glk	M		M
<p>Herrera, J. (1957) 570711  <u>Invest.pesq.</u>, 6:111-22  <u>Datos climáticos del puerto de Castellón y térmicos de las aguas costeras superficiales en relación con la pesca en 1955</u> (Meteorological data from the harbour of Castellón and temperatures of superficial coastal waters in relation to fishing in 1955)</p> <p>Meteorological data and surface water temperatures from fishing grounds are summarised for 1955, as possible indicators of upwelling.</p>		<p>Hesse, P.R. (1957) 570714  <u>Hydrobiologia</u>, 11(1):29-39  <u>The distribution of sulphur in the muds, water and vegetation of Lake Victoria</u></p> <p>Describes methods used and analytical results obtained from investigations in northern area of the lake, including island soils.</p>	
FAO:glk	M	FAO:wad	F



Heuschmann, O. (1957) 570715  
Handb.Binnenfisch.Mitteleurop., 3(8):  
1-22

Die Hechtartigen Ordnung Haplomi  
(Esociformes) (The pikes and related  
species order Haplomi (Esociformes))

Biology, ecology and distribution of  
pike and related species.

FAO:t1

F

Hida, T.S. (1957) 570718  
Spec.sci.Rep.U.S.Fish Wildl.Serv.,  
(215):13 p.

Chaetognaths and pteropods as biological  
indicators in the North Pacific

Displacement volume and 'group count'  
data are analyzed to show general  
abundance and distribution, indicating  
the existence of faunal zones; relations  
with albacore distribution and  
temperature-salinity features were  
studied.

GLK:glk

M

Heuschmann, O. (1957) 570716  
Handb.Binnenfisch.Mitteleurop., 3(8):  
23-199

Die Weissfische (Cyprinidae) (White-  
fishes (Cyprinidae))

Biology, ecology and distribution of  
whitefishes.

FAO:t1

F

Hidaka, K. (1957) 570719  
Geophys.Notes, Tokyo, 10(1)  
Geostrophic currents and mixing

M

Hewatt, W.G. and 570717  
J.D. Andrews (1957)  
Proc.Nat.Shellf.Ass., 46(1955):129-33  
Temperature control experiments on the  
fungus disease, Dermocystidium marinum,  
of oysters

Temperatures of 15°C arrested infection  
and mortality of the oysters caused  
by the disease.

:hr

MF

Hidaka, K. (1957) 570720  
Geophys.Notes, Tokyo, 10(1)  
Influence of friction on geostrophic  
flow; sources of errors in dynamic  
computation of ocean currents

M

<p>Higasa, S. and A. Suzuki (1957) 570721  <u>Rep.Nankai reg.Fish.Res.Lab.</u>, 6:1-7  (Biochemical studies on the growth and maturation of fish bodies. I. On the variation of ether-soluble matters of ovaries and livers with gonad development in yellowfin tuna (Part I)).  <u>Ni En</u></p> <p>Account of investigations on quantitative changes of fatty constituents in ovaries and livers of <u>Neothunnus macropterus</u> in different stages of sexual maturity.</p> <p>FAO:efa M</p>	<p>Hilder, B. (1957) 570724  <u>Mar.Obs.</u>, 27:215-8  International Symposium on Tropical Cyclones - Held at Brisbane, Queensland, 10th-14th December, 1956</p> <p>Popular review of the present practices and future possibilities and unsolved problems for predicting the tracks of hurricanes.</p> <p>FAO:t1 MF</p>
<p>Higasa, S. and A. Suzuki (1957) 570722  <u>Rep.Nankai reg.Fish.Res.Lab.</u>, 6:8-17  (Biochemical studies on the growth and maturation of fish bodies. II. On the variation of ether-soluble matters of ovaries and livers with gonad development in yellowfin tuna (Part II)).  <u>Ni En</u></p> <p>Reports results of 570721.</p> <p>FAO:efa M</p>	<p>Hill, M.N. (1957) 570725  <u>Nature, Lond.</u>, 180:10-3  Geophysical investigations on the floor of the Atlantic Ocean in DISCOVERY II, 1956</p> <p>Review of the seismic refraction, magnetic, bathymetric and photographic work done on the cruises during 1956.</p> <p>GLK:t1 M</p>
<p>Highton, R. (1957) 570723  <u>Copeia</u>, (2):107-9  Correlating costal grooves with trunk vertebrae in salamanders</p> <p>Gives the results of estimation of the number of trunk vertebrae by counting costal grooves in <u>Plethodon</u> and other salamanders.</p> <p>HR:hr F</p>	<p>Hincks, W.D. (1957) 570726  <u>Résult.sci.Explor.hydrobiol.Tanganyka</u>, 3(6):39-42  Dermaptera</p> <p>A taxonomic list.</p> <p>FiB:hr F</p>

Hindle, E. (1957)  
Nature, Lond., 180:935-6  
Zoological literature

570727

Review of 571556.

GLK

MF

Hiyama, Y., T. Kusaka and K. Kondo (1957)  
Bull.Jap.Soc.sci.Fish., 22:598-601  
(Differences on the frequency of transfer of fishes among several kinds of colours for under-water fencing net). Ni En

570730

Tin plates enamelled different colours used to simulate a fencing net in experimental tank, to demonstrate reaction of Acheilognathus lanceolate (Yari-tanago) to significant coloured objects.

SJH:sjh

F

Hipkins, F.W. (1957)  
Fish.Leafl., Wash., 439:12 p.  
The dungeness crab industry

570728

Deals with Cancer magister, often called the Pacific crab. Includes brief history of the commercial fishing areas, methods of capture, fishing boats, and regulations for the commercial fishery. Statistics on landings of dungeness crabs in California, Oregon, Washington and Alaska from 1946 to 1954.

FAO:glk

M

Hobbs, H.H. Jr., and M. Walton (1957)  
Tulane Stud.Zool., 5:39-52  
Three new crayfishes from Alabama and Mississippi

570731

Three new crayfishes of the Blandingii Group are described from Alabama and Mississippi: Procambarus hybus, P. mancus and P. jaculus.

FAO:hr

F

Hiyama, Y., T. Kusaka and K. Kondo (1957)  
Bull.Jap.Soc.sci.Fish., 22:602-4  
(Difference on the frequency of transfer of fishes with different degrees of inclinations of underwater fencing net). Ni En

570729

White enamelled tin plate used in tank to simulate fencing net set at varying angles to the vertical and demonstrate reactions of Acheilognathus lanceolate (Yari-tanago) to significant inclined objects.

SJH:sjh

F

Hodgson, W.C. (1957)  
Routledge and Kegan Paul, London, 197 p.  
The herring and its fishery

570732

Covers the following topics: I. Distribution of the family Clupea; II. The herring fisheries; III. Catching the herring; IV. The herring as a food; V. Science and fishing; VI. Fluctuations; VII. Science and the fish; VIII. The East Anglian fishery and forecasting; IX. The decline of the East Anglian fishery.

:hr

M



Hoffman, J. (1957) 570733  
Int.hydr.Rev., 34(2):47-57  
Application des courbes hyperboliques  
au sondage par écho (Application of  
hyperbolic curves in echo-sounding)

Discussion of the use of these curves  
in determining the breadth of the  
emission beam of the echo-sounder, the  
speed of the vessel, the phase of the  
recorder, the slope of the bottom, in  
interpreting bottom configuration and  
perhaps in solving the problem of the  
deep scattering layer.

FAO:glk

M

Holden, A.V. (1957) 570736  
Challenger Soc., 3(9):29  
Factors concerned in the removal of  
phosphate from fresh waters

Abstr. of paper read at Joint Meeting  
of the Brown Trout Research Laboratory,  
Pitlochry. 4th and 5th October, 1956.  
Account of investigations on  
disappearance of dissolved phosphate,  
following addition of fertilizer to  
a Scottish hill loch, and some factors  
concerned in phosphate removal. Incl.  
discussions on possibility of producing  
permanent increase in quantity of  
phosphorus in circulation.

SJH:efa

F

Hohn, M.H. (1957) 570734  
Petrol.Engr, 29(2):46-8  
The diatometer, a method for indicating  
conditions of aquatic life

F

Holland, G.A. (1957) 570737  
Fish.Res.Pap.Wash.Dep.Fish., 2(1):43-59  
Migration and growth of the dogfish  
shark, Squalus acanthias (Linnaeus),  
of the eastern North Pacific

Catch statistics, tagging methods and  
returns, and factors affecting these;  
migrations, growth.

FAO:sjh

M

Hokkaido University, Faculty 570735  
of Fisheries (1957)  
Hokkaido 1957  
Data record of oceanographic observations  
and exploratory fishing, no. 1

Concerned with data collected in  
cruises to the Aleutians and Bering  
Sea.

:sjh

MF

Hollande, A. and M. Enjument (1957) 570738  
Bull.sta.Aquic.Pêche Castiglione, (8):  
271-9

Sur une invasion des eaux du port d'Alger  
par Chattonella subsalsa (= Hornellia  
marina Sub.) Biecheler - Remarques sur  
la toxicité de cette chloromonadine  
(On an invasion of the waters of the  
port of Algiers by Chattonella subsalsa  
(= Hornellia marina Sub.) Biecheler -  
Remarks on the toxicity of this chloro-  
monadine)

Notes on the biology and toxicity of  
this sp.

FAO:efa

M



Hollande, A. and M. Enjumet (1957) 570739  
C.R.Acad.Sci., Paris, 244:508-10  
Enkystement et reproduction isosporo-  
génétique chez les Acanthaires  
(Encystment and isosporogenetic  
reproduction in the Acantharia)

Content as per title.

FAO:efa

M

Honma, M. and T. Kamimura (1957) 570742  
Rep.Nankai reg.Fish.Res.Lab., 6:84-90  
(Studies on the albacore. V. The  
fishing condition and size of albacore  
taken in the South Pacific Ocean).  
Ni En

Hook-rate length compositions from  
Tokyo, Misaki and Yaizu landings and  
mother ships working near Solomon I.  
1952-55.

FAO:sjh

M

Holmberg, L. (1957) 570740  
Svensk FiskTidskr., 66(12):201-2  
Fiskande kräkor (Fishing Corvus  
corone cornix L.)

Observations on the fishing behaviour  
of this bird.

FAO:tl

F

Hood, D.W., K. Park and 570743  
J.B. Smith (1957)  
Paper presented at the Thirty-Eighth  
Annual Meeting, Washington, D.C.,  
April 29 - May 2, 1957  
Bicarbonate ion as a source of carbon  
for marine plants, and its oceano-  
graphic significance

M

Holmes, R.W., M.B. Schaefer 570741  
and B.M. Shimada (1957)  
Bull.interam.trop.Tuna Comm., 2(4):129-  
68

Primary production, chlorophyll, and  
zooplankton volumes in the tropical  
Eastern Pacific Ocean. Es

Description of the methods used; results  
of surface and subsurface observations;  
correlation of surface primary  
production and zooplankton volumes with  
surface chlorophyll and comparisons  
with observations in other oceanic  
regions.

FAO:tl

M

Hooker, C.V., M.H. Duffner 570744  
and C.R. Brown (1957)  
Washington: Government Printing Office,  
235 p.  
The polar bibliography. Vol. II

Annotated bibliography, prepared by staff  
of the Technical Information Division in  
the Library of Congress for the USA  
Department of Defense. Not available for  
general distribution or for sale.  
Accessible to readers at the Library of  
Congress along with Vol. I issued in 1956.  
Containing references to unpublished,  
unclassified documents relating to the  
polar and subpolar regions and to the  
effects of cold environment on men and  
equipment.

:sjh

MF

Hopke, F.W. (1957) 570745  
Fischwirt, 4:85-91  
Kapfenwirtschaft in Seen (Carp  
culture in the lakes)

Review of the problem and present  
practices.

FAO:tl

F

Hoshi, T. (1957) 570748  
Sci.Rep.Tohoku Univ., 4th Ser., 23(1):  
27-33  
Physiology and ecology of plankton.  
XII. Changes in oxygen consumption of  
the daphnid, Simocephalus vetulus, with  
the decrease of oxygen concentration

F

Horiguchi, Y. (1957) 570746  
Bull.Jap.Soc.sci.Fish., 22(12):747-51  
(Biochemical studies on Pteria (Pinctada)  
martensi (Dunker) and Hyriopsis schlegeli  
(Martens) - III. Accumulation and  
disappearance of  $Ca^{45}$  in various organs  
of Hyriopsis schlegeli (Martens)). Ni

Study of calcium metabolism, using  
tracers, to clarify mechanism of shell  
and pearl formation.

SJH:sjh

M

Hoshi, T. (1957) 570749  
Sci.Rep.Tohoku Univ., 4th Ser., 23(1):  
35-58  
Physiology and ecology of plankton.  
XIII. Hemoglobin and its role in the  
respiration of the daphnid, Simoce-  
phalus vetulus

F

Horridge, G.A. (1957) 570747  
Phil.Trans., Ser.B., 240(675):495-528  
The co-ordination of the protective  
retraction of coral polyps

M

Hoshina, T. (1957) 570750  
J.Tokyo Univ.Fish., 43(1):59-66  
Further observations on the causative  
bacteria of the epidemic disease like  
furunculosis of rainbow-trout  
  
Description of Vibrio piscum var.  
japonicus n. var. from Salmo gairdnerii.  
Epidemic was reported by author in  
J.Tokyo Univ.Fish., 42:15-6, 1956.

FAO:sjh

F

<p>Hoshina, T. and T.Chiba (1957) <u>Bull.Jap.Soc.sci.Fish.</u>, 23(4):199-201 On the bacteriostatic power of malachite green against the causative bacteria of vibrio-disease of rainbow- trout</p> <p>Tests of this dye with bacterial cultures, showing influence on growth rates.</p> <p>SJH:sjh F</p>	<p>Houbolt, J.J.H.C. (1957) 570754 <u>Rijksuniv.Utrecht</u>, 113 p. Surface sediments of the Persian Gulf near the Qatar peninsula</p> <p>M</p>
<p>Hoshina, T. and S. Hosoda (1957) 570752 <u>J.Tokyo Univ.Fish.</u>, 43(1):71-3 On a new myxosporidian species, <u>Thelohanellus cyprini</u>, n. sp., parasitic in the fin of <u>Cyprinus carpio</u></p> <p>An ill. description of specimens from ponds at Kazô, Saitama, July 1956.</p> <p>FAO:sjh F</p>	<p>Houot, G. and J.M. Peres (1957) 570755 <u>Sea Frontiers</u>, 3:72-9 Science goes deep</p> <p>Popular description of the bathyscape and its use.</p> <p>HR:tl M</p>
<p>Hoshina, T. and T. Sano (1957) 570753 <u>J.Tokyo Univ.Fish.</u>, 43(1):67-9 On a trypanosome of eel</p> <p>Ill. description of <u>Trypanosoma</u> sp. (not <u>T. granulosum</u>) from <u>Anguilla</u> <u>japonica</u> in pond, Shizuoka, summer of 1956.</p> <p>FAO:sjh F</p>	<p>Hourston, A.S. (1957) 570756 <u>Progr.Rep.Pacif.Cst Stas</u>, (109):12-3 Relative abundance of juvenile herring in the strait of Georgia in 1955 and 1956</p> <p>Nos. observed schools of <u>Clupea palasii</u>.</p> <p>GLK:sjh M</p>

Hourston, A.S. and 570757  
R.H. Herlinveaux (1957)  
Progr.Rep.Pacif.Cst Stas, (109):3-6  
A "mass mortality" of fish in Alberni  
Harbour, B.C.

Investigation of dead Gasterosteus  
aculeatus and Cymatogaster aggregatus  
observed 26/9/56; relation to pollution;  
hydrographic observations.

GLK:sjh

M

Hubault, E. (1957) 570760  
Bull.Soc.Sci., Nancy, 16(2):22-39  
Etude des pollutions d'eaux libres:  
méthode chimique, méthode biologique,  
test poisson (Study of the  
pollution of unconfined waters: chemical  
methods, biological methods, fish test)

A brief review of methods of study of  
industrial pollution in running or  
stagnant waters.

FAO:hr

F

Houston, A.H. (1957) 570758  
Canad.J.Res.(Zool), 35(3):371-83  
Responses of juvenile chum, pink and  
coho salmon to sharp sea-water  
gradients

A study in sharp-gradients tanks of  
responses of Oncorhynchus keta, and O.  
gorbuscha fry, and O. kisutch fry smolts  
to sea water in sharp-gradient tanks.

FAO:hr

MF

Hubbs, C. (1957) 570761  
Tex.J.Sci., 9:472-4  
Duration of sperm viability as a  
factor in frequency of fish hybridiza-  
tion

Fertilization experiments with Percina  
caprodes (Rafinesque) and Etheostoma  
spectabile (Agassiz).

FAO:sjh

F

Hu, Bu-chin and 570759  
Mei-hwa Hwang (1957)  
Acta zool.sinica, 9:195-205  
(The nature population and sex ratio  
of Chirocephalus nankeenensis in  
Hangchow and its vicinity and the  
preliminary results of crossing  
experiments in the laboratory).  
Ch En

A preliminary report based on the records  
from 1948-1956.

FAO:hr

M

Hubbs, C. (1957) 570762  
Tulane Stud.Zool., 5:3-16  
Gambusia heterochir, a new poeciliid  
fish from Texas, with an account of its  
hybridization with G. affinis

The new species described has formed a  
hybrid swarm with Gambusia affinis.  
Introgression with G. heterochir appears  
negligible. Introgression was not found  
in nearby populations of G. affinis.

FAO:hr

F



Hubbs, C. and K. Strawn (1957) 570763  
Evolution, 11(1):1-10  
Relative variability of hybrids between  
the darters Etheostoma spectabile and  
Percina caprodes

A sample of F<sub>1</sub> hybrids between the orange  
throat darter (Etheostoma spectabile) and  
the logperch (Percina caprodes) stocks  
from the San.Gabriel River varied widely  
in a number of morphological characters.  
Hybrids of the same combination from  
Colorado River stocks were no more  
variable than their parental stocks.

GLK:wad

F

Huddle, H. (1957) 570766  
Inform.Leafl.Calif.Dep.Fish Game,  
(18):3 p.  
Chemical eradication of aquatic weeds  
and algae

Lists some of the major chemicals  
used and includes detailed methods for  
use of copper sulfate in algae control.

WAD:wad

F

Hubert, W.E. (1957) 570764  
Paper presented at the Thirty-Eighth  
Annual Meeting, Washington, D.C.,  
April 29- May 2, 1957  
Numerical sea-condition forecasts

M

Humes, A.G. (1957) 570767  
Bull.Inst.franç.Afr.noire, A.Sci.nat.,  
19:485-90  
Une nouvelle espèce de Clausidium  
(Copepoda, Cyclopoida) parasite d'une  
Callianassa au Sénégal (A new  
species of Clausidium (Copepoda, Cyclo-  
poida) parasite on a Callianassa in  
Senegal)

Morphological description.

FAO:glk

M

Hublou, W.F. (1957) 570765  
Progr.Fish Cult., 19(1):40-3  
A method of using an anesthetic in  
marking fins

Describes a closed recirculating system  
used for marking salmonids in hatchery  
troughs.

WAD:wad

F

Humes, A.G. (1957) 570768  
Vie et Milieu, 8(1):9-22  
Deux copépodes harpacticoïdes nouveaux  
du genre Tisbe, parasites des holothu-  
ries de la Méditerranée (Two new  
harpacticoid copepods of the genus  
Tisbe, parasite to the holothurians of  
the Mediterranean)

A taxonomic description of Tisbe holo-  
thuriae and T. cucunariae, followed by  
a discussion of their systematic  
relationship.

FAO:hr

M

<p>Humes, A.G. (1957) 570769  <u>Vie et Milieu</u>, 8(1):1-8  <u>Octopicola superba</u> n. g., n. sp., copépode cyclopoïde parasite d'un <u>Octopus</u> de la Méditerranée (<u>Octopicola superba</u> n. g., n. sp., a cyclopoid copepod parasite to an <u>Octopus</u> of the Mediterranean)</p> <p>A taxonomic description of the genus and species, followed by a discussion of the systematic position of the genus.</p> <p>FAO:hr M</p>	<p>Hurley, D.E. (1957) 570772  <u>Trans.roy.Soc.N.Z.</u>, 84(4):903-33  Studies on the New Zealand amphipodan fauna - No. 14. The genera <u>Huale</u> and <u>Allorchestes</u> (family Talitridae)</p> <p>The genera <u>Huale</u> and <u>Allorchestes</u> are considered distinct and keys are given to the New Zealand species of <u>Huale</u> which are here revised. Seven species of <u>Huale</u> and two of <u>Allorchestes</u> are recorded two of the former being new records for New Zealand.</p> <p>FAO:glk M</p>
<p>Hunter, W.R. and T. Warwick (1957) 570770  <u>Proc.roy.Soc.Edinb.</u>, B, 66:360-73  Records of <u>Potamopyrgus jenkinsi</u> (Smith) in Scottish fresh waters over fifty years (1906-56)</p> <p>Traces dispersal of this snail across Scotland largely from the Tay.</p> <p>FAO:jae F</p>	<p>Hurley, D.E. (1957) 570773  <u>Trans.roy.Soc.N.Z.</u>, 85(1):149-99  Terrestrial and littoral amphipods of the genus <u>Orchestia</u> (family Talitridae)</p> <p>The generic status of <u>Orchestia</u> and <u>Parorchestia</u> is discussed and <u>Parorchestia</u> is considered a synonym of <u>Orchestia</u>. Keys are given to the 14 species of New Zealand <u>Orchestia</u> here described, four of which are new to science.</p> <p>FAO:hr M</p>
<p>Huntley, I.D. (1957) 570771  <u>Weather</u>, 12:373-6  The Thames in winter</p> <p>MF</p>	<p>Hylblom, R. (1957) 570774  <u>Ark.Zool.</u>, 10:539-82  Studies on palaeonemertean of the Gullmar Fiord area (West Coast of Sweden)</p> <p>A taxonomic description.</p> <p>FAO:tl M</p>

Idyll, C.P. (1957) 570775  
The Marine Laboratory, University of  
Miami, ML 15951, 57-11, 11 p.  
Quarterly report on fisheries research

Statistics. Report of investigations  
on shrimp, weakfish, tarpon, snook,  
gamefish, and on various technological  
problems.

FAO:glk

M

Il'in, B.S. (1957) 570778  
Vop.Ikhtiol., 8:25-7  
Dobavlenie k faune buchkov (Gobiidae)  
Chernogo Moria (Additions to the  
Goby (Gobiidae) fauna of the Black Sea)

Notes on Gobius (Macrogobius) paganellus  
L.

FAO:glk

M

Igarashi, H. et al. (1957) 570776  
Bull.Hokkaido reg.Fish.Res.Lab., (16):  
92-9

(Preliminary report on copper content in  
the sea water and the marine algae of  
the inlet of Toyohama, Ishikari Bay).  
Ni En

Spectrographic analysis of copper as  
indicator of pollution, showed specific  
and seasonal variations, in Sargassum,  
Enteromorpha, Ulva, Laminaria, Chondrus,  
Rhodomenia, Scytosiphon and Grateloupia  
spp.

FAO:sjh

M

Iljin, A.V. (1957) 570779  
C.R.Acad.Sci.U.R.S.S., 116:397-400  
Novye dannye o reliefe morskogo dna v  
raione Komandorskikh ostrovov (New  
data on the bottom relief in the region  
of the Commodore Islands)

Description and results of echo-soundings,  
carried out in 1950-55.

FAO:gc

M;

Ikematsu, W. (1957) 570777  
Bull.Jap.Soc.sci.Fish., 22(12):736-41  
(Ecological studies on the clam, Tapes  
japonica (Reeve). II. On the setting  
season and the growth in early young  
stage). Ni

Study of collections made 1950-55 from  
Sea of Ariake; two seasons; May and  
December, but former is unstable.

SJH:sgk

M

Imamura, Y. and 570780  
M. Ogura (1957)  
Bull.Jap.Soc.sci.Fish., 23(3):150-6  
Study on the effects of the fish-gathering  
by means of Furinawa

Use of model fishing gear in tank with  
Cyprinus carpio to study the character-  
istics of the equipment used in the  
Japan Inland Sea to catch Pagrosomus  
major.

SJH:sjh

MF

Imhoff, K., W.J. Müller 570781  
and D.K.B. Thistelthwayte (1957)  
Butterworths Scientific Publications,  
London  
Disposal of sewage and other water-  
borne wastes

MF

Indo-Pacific Fisheries 570784  
Council (1957)  
Regional Office for Asia and the Far  
East, FAO, Bangkok, 1 vol.  
Directory of fisheries institutions  
(Asia and the Far East)

MF

Inaba, D. et al. (1957) 570782  
J.Tokyo Univ.Fish., 43(1):81-96  
Preliminary report on the spawning of  
grass-carp and silver-carp in the Tone  
River, Japan and the development of  
their eggs  
  
Ill. description of successful experiments  
in propagation of Ctenopharyngodon  
idellus, Hypophthalmichthys molitrix and  
Aristichthys nobilis.

FAO:sjh

F

Ingalls, T.H. (1957) 570785  
Sci.Amer., 197(4):109-16  
Congenital deformities  
  
Illustrated report on experiments to  
measure the damage to the embryo of  
zebra fish by lack of oxygen.

FAO:hr

F

Indo-Pacific Fisheries 570783  
Council (1957)  
Occ.Pap.IPFC, 57/3, 33 p.  
National fisheries policy and programme

Compilation of statements on governmental  
programmes in administration,  
development and research, and policy on  
which these programmes are based.

GLK:glk

MF

Inger, R.F. (1957) 570786  
Fieldiana, Zool., 36(3):341-405  
Report on a collection of marine fishes  
from North Borneo

M



Ingols, R.S. (1957) 570787  
Sewage industr.Wastes, 29:292-7  
Pollutional effects of hydraulic power  
generation

F

International Commission for the 570790  
Northwest Atlantic Fisheries (1957)  
Halifax, N.S., Canada, 76 p.  
Annual proceedings for the year 1956-57,  
Vol. 7

Administration report and financial  
statement for 1/7/56 - 30/6/57; report  
of 7th Ann. Meeting, in Lisbon, 20-25/5/  
57, with agenda and list of participants;  
summaries of research by member countries  
in each subarea, for 1956; list of  
laboratories and scientists.

GLK:sjh

M

Ingram, W.M. (1957) 570788  
Public Health Service, U.S.Dep.Health  
Education and Welfare, 95 p.  
Handbook of selected biological  
references on water pollution control,  
sewage treatment, water treatment

Selected largely for availability and  
usefulness to those not trained  
primarily in biology. Also includes  
references on organism identification.  
Not annotated.

FAO:wad

F

International Commission for the 570791  
Northwest Atlantic Fisheries (1957)  
Halifax, N.S., Canada, 4 p.  
Newsletter No. 25

Announcement of German ratification of  
the ICNAF treaty. A brief discussion  
of German participation in fishing and  
research in the area. Report on the  
enforcement of legislations proposed  
by the Commission and news of various  
fishing operations by member States in  
the Commission area.

FiB:glk

M

Inter-Island Marine Biological 570789  
Conference (1957)  
Univ.Puerto Rico, Off.nav.Res.(March  
31 - Apr. 6, 1957), 28 p.  
Report by the Institute of Marine  
Biology, College of Agriculture and  
Mechanic Arts, University of Puerto Rico,  
Mayaguez, Puerto Rico

Contains the objectives, general program,  
and program of meetings and abstracts of  
proceedings. Appendices A and B contain  
the abstracts of some papers presented  
and an account of laboratories of the  
region respectively.

HR:hr

M

International Commission for the 570792  
Northwest Atlantic Fisheries (1957)  
Halifax, N.S., Canada, 52 p.  
Statistical Bulletin, Vol. 5 for the  
year 1955

Part 1 gives summary of the fishery in  
the Convention Area 1952-55; Part 2  
gives detailed tables of landings by  
species groups, certain species, country,  
month, subdivision, subarea and gear,  
and landing effort by gear and subarea  
for each country.

GLK:hr

M

International Electrotechnical Commission (1957) 570793  
Publ.int.electrotech.Comm., (92), 175 p.  
Recommendations for electrical installations in ships

FAO

M

International North Pacific Fisheries Commission (1957) 570796  
Vancouver, 88 p.  
Annual report for the year 1956

Report of the 1956 annual meeting, administrative report and the results of research by Canada, Japan and U.S.A. in 1956.

SJH:tl

M

International Institute of Refrigeration (1957) 570794  
Paris, 240 p.  
Commissions: 2, Nantes. 1. Air-conditioning on board ships. 2. Thermal insulation on board ships. 3. Thermal measurements.

FAO

M

Irisawa, H. and A.F. Irisawa (1957) 570797  
Biol.Bull.Wood's Hole, 112(3):358-62  
The electrocardiogram of a stomatopod

The electrocardiogram of the tubular heart of the mantis shrimp, Squilla oratoria de Hann, was studied. Structural findings are described which confirm Alexandrowicz's observation.

FAO:glk

M

International Labour Conference (1957) 570795  
Seventh item on the agenda, Geneva, International Labour Office, Report 7(1)  
Conditions of work of fishermen.  
En Fr Es

MF

Irving, L and J.S. Hart (1957) 570798  
Can.J.Zool., 35:497-511  
The metabolism and insulation of seals as bare-skinned mammals in cold water

The metabolic rate of five harbor seals (Phoca vitulina) and two harp seals (Phoca groenlandica) was measured over a temperature range of 25° to 10°C. in air and 20° to 0°C. in water. Surface temperatures and tissue temperature gradients were also determined. Metabolic economy of the seals in ice water was preserved by exceptional cooling of all body surfaces (to about 1°C.), which cooling provided protection comparable to that of fur of large land mammals in coldest climates.

FAO:hr

M

Isaacs, J.D., R.P. Huffer 570799  
and L.W. Kidd (1957)  
Science, 125(3243):341  
Instrument stations in the deep sea

Preliminary announcement of technique  
for mooring instrument stations in  
depths of from 3,200 to 4,700 metres.

FAO:glk

M

Itazawa, Y. (1957) 570802  
Bull.Jap.Soc.sci.Fish., 22:685-93  
(The diurnal variation of the oxygen  
content of the fish-culture-pond  
water). Ni En

Results (by carbon dioxide method of  
O<sub>2</sub> estimation) are related to phyto-  
plankton density (estimated by Nakamura  
white disk transparency method), to  
size of fish population, and to amount  
of other radiation.

SJH:sjh

F

Ishida, T. (1957) 570800  
Bull.Hokkaido reg.Fish.Res.Lab., (16):  
63-9

(On the population of Alaska pollack in  
the South-West coast of Hokkaido, with  
special reference to the otolith study).  
Ni En

Otoliths show different rates of growth  
in 3 groups of Therogra chalcogramma  
which are distinguishable by size  
frequency differences. Relation of these  
differences to population density and  
to oceanographic conditions.

FAO:sjh

M

Itazawa, Y. (1957) 570803  
Bull.Jap.Soc.sci.Fish., 23:71-80  
Gas content of the blood in response  
to that of medium water in fish

Tank expts. with Cyprinus carpio in  
which O<sub>2</sub> and CO<sub>2</sub> content of arterial  
and venous blood and of the water were  
measured and compared, for normal fish,  
and one suffering from dyspnoea.  
Describes techniques.

SJH:sjh

F

Ishigaki, T. and Y. Kaga (1957) 570801  
Bull.Hokkaido reg.Fish.Res.Lab., (16):  
13-38

Fishery biological studies of sand-lance  
(Ammodytes personatus Girard) in waters  
around Hokkaido - I. Especially on  
the structure of population

Meristic and morphometric characteristics  
of catch samples; fishing season and  
localities; clines, races, sexual  
differences examined.

FAO:sjh

M

Ito, T. (1957) 570804  
Hydrobiologia, 11(1):1-28  
Groundwater copepods from south-western  
Japan

Notes on the occurrence, taxonomy and  
morphology of 15 cyclopoids from wells  
and limestone caves. Three new species  
are described: Paracyclops aiouensis,  
Acanthocyclops miurai and Halicyclops  
higoensis.

FAO:wad

F



Iurovitskii, Iu.G. (1957) 570805  
Zool.Zh., 36(6):831-8  
K voprosu ob izmenchivosti organizmov  
(On the variability of organisms)

Discussion of the variability and character of organisms, regarding variability itself as an adaptive character like all other features of the organization, activity and behaviour of species. The discussion is based on data relating to fecundity of Abramis ballerus L.

FAO:glk

F

Iversen, E.S. and 570808  
H.O. Yoshida (1957)  
Pacif.Sci., 11(4):370-8  
Notes on the biology of the wahoo in the Line Islands

Methods; notes on availability, reproduction, food habits, length frequency, composition of catch, length-weight relation, and parasites.

FAO:glk

M

Ivanoff, A. (1957) 570806  
Bull.Com.cent.Océanogr., 9(9):491-9  
Un polarimètre sous-marin à cellule photoélectrique. Premiers résultats obtenus (A sub-marine polarimeter with photoelectric cell. First results)

Description of the polarimeter and of the principles on which it operates, with an account of the first results obtained concerning the influence of depth and of wave length and a discussion of other possibilities of the polarimeter.

FAO:glk

M

Iwai, T. (1957) 570809  
Bull.Jap.Soc.sci.Fish., 23(6):295-301  
The sequence of yolk absorption in the embryo of the deep-sea luminous shark, Etmopterus lucifer Jordan et Snyder

Ill. report of histological study of series of 88 specimens ranging 3.7 - 15 cm total length stripped from gravid females caught off Owashi in spring and autumn fishing seasons, 1954.

SJH:sjh

M

Ivasik, V.M. and P.E. Roi (1957) 570807  
Bul.Inst.Cerc.piscic.Roman., 16(2):61-8  
Experiente pentru lichidarea hidropiziei crapilor in gospodariile de elesteu din regiunile vestice ale RSS Ucrainene (Experience in control of carp dropsy in fish farms of western regions of Ukraine). Fr Ru

Reports results of experiments for improvement of Cyprinus carpio culture.

FAO:sjh

F

Izhevskii, G.K. (1957) 570810  
Fish.Ind., Moscow, (12):48-55  
O zablagovremennom opredelenii rezhima Barentsova moria (The timely forecast of the water regime in the Barents Sea)

The sea's thermal regime and fish behaviour. Larger range of migrations and lesser concentration of shoals in warm years which are also more propitious for reproduction. Warm spells in the Barents Sea correspond to cold ones off Greenland. Importance for fisheries of forecasts based on studies of currents.

FiB:go

M



Jaag, O. (1957) 570811  
Monatsbull.schweiz.Ver.Gas- u.Wasser-  
fachm., 37:225-8  
Radioactivity and protection of water

Jakovlev, V. (1957) 570814  
Kurze Mitt.Inst.FischBiol.Univ.Hamburg,  
(7):23-8  
Vorläufige mitteilung über die Unter-  
suchung des wassergehaltes bei schollen  
und kliesen (Preliminary  
communication on research into the  
water content of plaice and dab)

Report of determinations made on fresh  
material at sea and examination of the  
relation of percentage water content  
with length.

MF

FAO:glk

M

Jablonski, O. (1957) 570812  
Prace Inst.morsk.Gdansk., (8):5-37  
Metoda ogólnego projektowania  
ekspedycyjnych flot rybackich (A  
method of joint designing of a fishing  
flotilla). En Ru

Desirable relations of characteristics of  
fishing grounds of groups within the  
fleet and technical characteristics of  
craft. Handling efficiency. A system of  
equations is devised to give alternative  
and economically optimal design solutions;  
selection of technically practicable  
solutions. Working schemes for the fleet.  
Bibliography of this neglected but  
important subject.

FAO:tl

M

James, P.E. (1957) 570815  
Econ.Geogr., 33:267-74  
Man's role in changing the face of the  
earth

Critical review of Thomas, W.L. (see  
especially Graham, M.), 1956.

FAO:sjh

F

Jacquemart, S. (1957) 570813  
Résult.sci.Explor.hydrobiol.Kivu,  
Eduard and Albert, 3(2):65-129  
Trichoptera des lacs Kivu et Eduard  
(Trichoptera of lakes Kivu and Edward)

Japanese National Commission 570816  
for UNESCO (1957)  
Tokyo, 235 p.  
Océanographic papers in Japan  
(Annotated Bibliography 1873-1938)

F

M

Jashnov, W.A. (1957) 570817  
Zool.Zh., 36(2):191-8  
 Comparative morphology of the species  
 of Calanus finmarchicus S.L.

Discusses the structure of the head and  
 the legs of the 5th pair of adults and  
 stage V of C. finmarchicus (Gunner),  
C. glacialis Jaschnov, C. helgolandicus  
 (Claus) with variety C.h. ponticus  
 Jaschnov and C. pacificus Brodsky.

FAO:tl

M

Jennings, J.B. (1957) 570820  
Biol.Bull., Wood's Hole, 112(1):63-80  
 Studies on feeding, digestion, and food  
 storage in free-living flatworms  
 (Platyhelminthes: Turbellaria)

A study has been made of the food,  
 feeding mechanisms, digestion and food  
 storage in the triclad Polycelis  
cornuta, supplemented by observations  
 on representatives of the other three  
 flatworm orders.

FAO:glk

MF

Jayaraman, R. and 570818  
 S.S. Gogate (1957)  
Proc.Indian Acad.Sci., Sec.B, 45:151-64  
 Salinity and temperature variations in  
 the surface waters of the Arabian Sea  
 off the Bombay and Saurashtra coasts

Jensen, A.J.C. (1957) 570821  
Dansk FiskTid, 75(1):1-3  
 Aendret maskeviddes virkning på  
 fiskeriudbyttet (The influence of  
 the changed mesh-size on the yield of  
 the fishery)

Summary of the discussions and  
 investigations on the subject in  
 connection with the North Sea  
 Convention.

M

FAO:tl

M

Jenkin, P.M. (1957) 570819  
Phil.Trans., Ser.B, 240:401-93  
 The filter-feeding and food of  
 flamingoes (Phoenicopteri)

Jensen, E.C. et al. (1957) 570822  
Sewage industr.Wastes, 29:687-94  
 Radioactive waste problems facing  
 State governments

MF

MF

Jensen, P.T. (1957) 570823  
Calif. Fish Game, 43(1):99  
An extension of the range of the long-  
finned smelt

Discovery of Spirinchus dilatus in Eel  
River, California, USA, in 1955,  
extends known southern range by 400  
miles and adds another species to fish  
fauna of California.

HR:wad

F

John, K.R. (1957) 570826  
Copeia, (2):123-32  
Observations on the behavior of blind  
and blinded fishes

Gives the results of an analysis of the  
various components of orientation  
including memory and distance perception  
mainly obtained on Anoptichthys hubbsi  
and Astyanax mexicanus.

HR:hr

F

Jeppson, P. (1957) 570824  
Progr. Fish Cult., 19:168-71  
The control of squawfish by use of  
dynamite, spot treatment, and reduction  
of lake levels

Describes methods used in Idaho (USA)  
lakes for the dispersal or eradication  
of spawning schools with ditching  
dynamite, killing of young with rotenone  
and Fish Tox, and exposure of eggs.  
Notes on the life history of Ptycho-  
cheilus oregonensis are given.

WAD:wad

F

John Murray Expedition 570827  
1933-34 (1957)  
Sci. Rep. Murray Exped., 10(3):8 p.  
Cephalochordata

Jerlov, N.G. (1957) 570825  
Tellus, 9(2):229-33  
A transparency meter for ocean water

The significance of the optical system  
in extinction measurements for a  
liquid dispersion is emphasized. In  
particular, the mechanism by which light  
is lost by scattering in a transparency-  
meter in the sea is discussed. The  
strongly selective absorption of yellow  
substance is demonstrated. A new  
transparency-meter sufficiently  
accurate for measurements in clear  
ocean water is described.

FAO:tl

M

Johnels, A.G. (1957) 570828  
Oikos, 8(2):122-9  
The mode of terrestrial locomotion in  
Clarias

Description, with series of stills from  
ciné-film and line drawings of movement  
on dry-land of Indian catfish, probably  
C. senegalensis, but perhaps C. lazera,  
observed in 1950.

FAO:sjh

F

Johnson, F., J.R. Arnold and R.F. Flint (1957) 570829  
Science, 125(3241):240-2  
Radiocarbon dating

Part of the article deals with the age of bottom waters of the oceans and the mixing and movement of water masses, as related to the general problems of radiocarbon dating.

FAO:tl

M

Jolivet, Y. (1957) 570832  
Résult.sci.Explor.hydrobiol.Tanganyka, 3(6):37-8  
Dictyoptera Blattodea

A taxonomic list.

FiB:hr

F

Johnson, L.D. (1957) 570830  
Progr.Fish Cult., 19(1):31  
Neutralizing electrostatic charge on rolling-mill scale press

Describes method of dissipating charge by brushes with strips of radioactive polonium.

FAO:efa

MF

Jolly, V.H. (1957) 570833  
Trans.roy.Soc.N.Z., 84(4):855-65  
A review of the copepod genus Boeckella in New Zealand

The systematic position of the genus Metaboeckella is discussed. Revised specific descriptions are given, and figures of the important specific characteristics.

FAO:glk

F

Jolivet, P. (1957) 570831  
Résult.sci.Explor.hydrobiol.Tanganyka, 3(6):43-51  
Coleoptera Chrysomeloidea

A taxonomic list.

FiB:hr

F

Jones, D.N. (1957) 570834  
Chem.Tr.J., 140:1410, 1412  
Fresh water from salt water

MF



Jones, N.R. and J. Murray (1957) 570835  
Biochem.J., 66:5-6  
 Nucleotides in the skeletal muscle of codling (Gadus callarias)

Determination of nucleotides in muscle of codling killed by immersion in liquid air; values were obtained for rested fish, exhausted fish, and for exhausted fish that had been caught by trawling and stored.

FAO:glk

M

Jonsgård, A. and P. Høidal(1957) 570838  
Norsk Hvalfangsttid., 46:507-12  
 Strandings of Sowerby's whale (Mesoplodon bidens) on the west coast of Norway

Description of voluntary stranding of the whales; discussion on the distribution and biology of the genus Mesoplodon with growth curve.

FAO:tl

M

Jones, N.S. (1957) 570836  
Bull.Inst.franç.Afr.noire, A.Sci.nat., 19:482-4

Cumacea from the coast of Sénégal collected by J. Cadenat

Preliminary note listing the material collected.

FAO:glk

M

Jonsgård A., J.T. Ruud and P. Øynes (1957) 570839

Norsk Hvalfangsttid., 46:160-77

Is it desirable and justified to extend the open season for humpback whaling in the Antarctic?

A study of the dynamics of the population of the humpback whales (Mcgaptera nodosa) and the increase in abundance of the species as a result of closed seasons.

FAO:tl

M

Jones, R.F. (1957) 570837  
Biol.Bull., Wood's Hole, 112(1):81-91  
 Variation of nitrogen and carbohydrate constituents during the development of Himanthalia elongata (L.) S.F. Gray

Study to determine the variation of chemical constituents during growth and development from germination to maturity and senescence, with independent study of vegetative and reproductive tissues.

FAO:glk

MF

Jordan, H.D. (1957) 570840  
Emp.J.exp.Agric., 25:197-206  
 Crabs as pests of rice on tidal swamps

Reports damage to seedlings by Sesarma huzardi, S. alberti, S. angolonse and Sarmatium curvatum, at West African Rice Research Station. Breeding season and behaviour; methods of chemical control.

FAO:sjh

MF

Jubb, R.A. (1957) 570841  
Nature, Lond., 180:47-8  
Eels in southern Africa

Occurrence of several spp. of Anguilla  
in river flowing into the western  
Indian Ocean.

CLK:sjh

MF

Kändler, R. and M. Lühmann (1957) 570844  
Ber.dtsch.Komm.Meeresforsch., 14(3):  
233-54

Über den Lachsbestand und die Erträge  
des deutschen Lachsfanges in der  
südöstlichen Ostsee (On salmon  
stock and yields of the German salmon  
catch in the south-eastern Baltic)

Notes on the history of Salmon salar  
and Salmo trutta; age and size of the  
salmon caught in southern Baltic by  
German fishermen and yield of German  
salmon fishery.

FAO:tl

M

Junge, Chr. E. and 570842  
P.E. Gustafson (1957)  
Tellus, 9(2):164-73  
On the distribution of sea salt over  
the United States and its removal by  
precipitation

Average maps for summer and winter of  
the distribution of chloride concentra-  
tion in rain water over the United  
States are presented, and an attempt  
is made to explain them quantitatively.

FAO:tl

F

Kajosaari, E. (1957) 570845  
FiskTidskr.Finl., 64(2):52-4  
Eräiden lohikalojen suhtautuminen  
selluloosateollisuuden jätevesiin  
(Behaviour of some salmonides in the  
waste waters from pulp and paper  
mills)

Extract and Finnish translation of  
original article: "Avoidance reactions  
of salmonide fishes to pulp mill  
effluents" (1956), Sewage industr.  
Wastes, 28(11), by Jones, Warren, Bond  
and Doudoroff.

FAO:tl

F

Kaartotie, T. and 570843  
E. Ryhänen (1957)  
FiskTidskr.Finl., 64(4):126-7  
Fysikaalisia ja kemiallisia määrityksiä.  
Kalavositutkimus, I. (Investigation  
of fishery waters, I.)

Physical and chemical determination.

FAO:tl

F

Kajosaari, E. (1957) 570846  
FiskTidskr.Finl., 64(3):87-90  
Eräiden lohikalojen suhtautuminen  
selluloosateollisuuden jätevesiin  
(Behaviour of some salmonides in the  
waste waters from pulp and paper mills)

Continuation of 570845.

FAO

MF

Kajosaari, H. (1957) 570847  
FiskTidskr.Finl., 64(2):47-8  
 Maikun ja siian risteytys (Hybrid  
 between Coregonus albula and Coregonus  
lavarotus)

Notes on successful experiments on  
 hybridization made at Porla fish  
 cultural station.

FAO:tl

F

Kallman, K.D., and M. Gordon (1957) 570850  
Ann.N.Y.Acad.Sci., 71(3):318 p.  
 Transplantation of fins in xiphophorin  
 fishes

F

Kakimoto, D. (1957) 570848  
Bull.Jap.Soc.sci.Fish., 22:634-6  
 (Studies on B-vitamins of pyloric coeca  
 of skipjack, Katsuwonus vagans. IV. On  
 vitamin B12). Ni En

Determination by Euglena and by  
Lactobacillus leichmananii methods;  
 effect on results of extraction by  
 hot water or by enzymatic digestion.

SJH:sjh

M

Kaltofen, H. (1957) 570851  
Naturwissenschaften, 5:119-20  
 Zur Theorie der Nährstoffwirkung  
 (On the theory of the effect of nutrient  
 material)

Proposes a general growth equation,  
 applicable to the dry weight of a plant  
 in which the rate of growth is a function  
 of the concentration of nutrient material  
 within the plant. The latter, having been  
 absorbed through the roots, is expressible  
 as a time integral, whose integrand is  
 proportional to the surface area of the  
 roots. The result is an integro-differ-  
 ential equation of considerable generality,  
 from which further deductions can be made  
 only if the functions involved are specified.

:sjh

MF

Kakimoto, D., A. Kanazawa 570849  
 and K. Kashiwada (1957)  
Bull.Jap.Soc.sci.Fish., 22:631-3  
 (Amino acid composition of the pyloric  
 coeca of skipjack, Katsuwonus vagans).  
 Ni En

Reports results of microbiological  
 analysis; response of lactic acid  
 bacteria studied experimentally.

SJH:sjh

M

Kamasastri, P.V. (1957) 570852  
Curr.Sci., 26:214-5  
 The tetrazolium bromide reduction test  
 in assessing the quality of fish

Content as per title.

FAO:efa

MF



Kamimura, T. (1957) 570853  
Rep.Nankai reg.Fish.Res.Lab., 5:97-118  
(Studies on variability of hooked-rates  
of yellowfin by longline fishing. 1. A  
trial to estimate confidence limits of  
mean hooked-rates using data of the  
catches of commercial vessels). Ni  
En

Tabulation and analysis of catch records  
of mother ship fleet working adjacent to  
Solomon Islands in June-August, 1953.  
Transformation of data employed in  
analysis of variance for geographical  
strata and between cruises.

FAO:sjh

M

Kamiura, F. (1957) 570854  
Rep.Nankai reg.Fish.Res.Lab., 5:84-96  
(Seasonal variation and distribution of  
fish school amounts). Ni En

Purse-seine catches compared with  
scouting results and anchovy egg counts  
in Nankai region.

FAO:sjh

M

Kammerer, J.C. (1957) 570855  
Washington, 33 p.  
Records available to September 30, 1956,  
on use of water in the Delaware Basin  
Project area

F

Kampa, E.M. and B.P. Boden (1957) 570856  
Deep-Sea Res., 4:73-92  
Light generation in sonic-scattering  
layer

Luminescence at the depth of the sonic-  
scattering layer in the San Diego Trough  
recorded at various times of day and  
night with a telc-recording bathyphoto-  
meter. The colour of the luminescence  
from the sonic-scattering layer was  
determined by using interference filters  
with the photometer. Laboratory  
determinations were made of the  
intensity and spectral distribution of  
the luminescence of 2 species, Euphausia  
pacifica and Pyrosoma atlantica, present

in the water on the night when scatter-  
ing-layer luminescence was measured.  
Problems presented to the oceanographer  
and the biologist by the introduction  
of bioluminescence records are discussed.

FAO:glk

M

Kamshilov, M.M. (1957) 570858  
Priroda, Moskva, 3:59-63  
Murmanskaya biologicheskaya stantsiya  
(Murman biological station)

Short description and history of the  
station and its activities.

FAO:t1

M



<p>Kanaev, I.P. (1957) 570859  <u>Fish.Ind., Moscow, 33(2):56-8</u>  Perkarina kak konkurent v pitanii  tsennykh promyslovykh ryb Azovskogo  moria (Perkarine as a competitor  in the nutrition of valuable industrial  fish in the Azov Sea)</p> <p>FAO M</p>	<p>Kanwisher, J. 570862  and H. Leivestad (1957)  <u>Norsk.Hvalfangsttid., 46:1-5</u>  Thermal regulation in whales</p> <p>An account of temperature measurements  made on a 54-foot fin whale (<u>Balaenopte-  ra physalus</u>).</p> <p>FAO:tl M</p>
<p>Kanwisher, J. (1957) 570860  <u>Oceanus, 5(1-2):13-8</u>  How cold is a whale's tail?</p> <p>Temperature measurements in one whale by  means of a new temperature-harpoon.</p> <p>FAO:hr M</p>	<p>Kapoor, A.S. (1957) 570863  <u>Experientia, 13:459-60</u>  Sensory canals of the head in <u>Wallagonia  attu</u> (Day)</p> <p>Anatomical description and comparison  with related species.</p> <p>FAO:glk MF</p>
<p>Kanwisher, J. and 570861  A. Ebeling (1957)  <u>Deep-Sea Res., 4(3):211-7</u>  Composition of the swim-bladder gas in  bathypelagic fishes</p> <p>Measurements were made of swim-bladder  size and gas composition on pelagic fish  in the eastern Pacific. The physiological  problem of vertical migration with a  swim-bladder is discussed.</p> <p>GLK:tl M</p>	<p>Karamchandani, S.J. (1957) 570864  <u>Indian J.Fish., 4(1):47-61</u>  On the occurrence of associates of carp  fry in the fry-collection nets and the  destructive role played by predatory  fish</p> <p>An account of the species of undesirable  fish with their percentage composition  and abundance of other aquatic  organisms which are concurrently found  in fry-collection nets operated in the  river Ganga at Dighwara (Bihar) and  also an account of the depredation of  carp fry caused by the predators.</p> <p>GLK:glk F</p>

Karo, H.A. (1957) 570865  
Int.hydr.Rev., 34(2):87-8  
 Cent cinquantienaire du "Coast and Geodetic Survey". Recueil d'articles. I. Historique et utilisation de la photogrammetrie au "Coast and Geodetic Survey" (One hundred and fiftieth anniversary of the "Coast and Geodetic Survey". Collection of articles. I. History and use of photogrammetry by the "Coast and Geodetic Survey")

Content as per title.

FAO:efa

M

Kašták, V. (1957) 570868  
Biológia, 12:102-12  
Helminthofauna stúk (Esox lucius) Oravskojej priehrady (Helminthofauna in pike (E. lucius) in the artificial lake of Oravaer). Ru De

Notes on occurrence of Tetraonchus monenteron, Triaenophorus nodulosus and Raphidascaris acus in pike of a river in Slovakia, with ill. notes on their biology.

FAO:efa

F

Karpevitch, A.F. (1957) 570866  
Fish.Ind., Moscow, 33(1):60-9  
Rekonstruktsiia rybnogo khoziaistva Azovskogo moria (Reconstruction of fishery in the Azov Sea)

FAO

M

Kašták, V. (1957) 570869  
Biológia, 12:137-9  
Nový druh monogenetickej cicavice z rodu Dactylogyrus Diesing, 1850 u Barbus meridionalis petenyi (Heck.) (A new species of monogenetic Dactylogyrus in Barbus meridionalis petenyi (Heck.))

Notes on occurrence of Dactylogyrus petenyi n.sp. in B. meridionalis petenyi of a river in Kosice district, Eastern Slovakia.

FAO:efa

F

Kashiwada K. et al. (1957) 570867  
Bull.Jap.Soc.sci.Fish., 22:637-40  
 (Studies on vitamin B12 in sea water. II. On the assay method and the distribution of this vitamin B12 in the ocean). Ni En

A method of removing disturbing substances (Cl. and Mg.) by dialysis with cellophane is applied to samples taken by research vessel in N. Pacific from Lat. 0° to 30° N. on the line of Long. 130° E.

SJH:sjh

M

Kasturirangan, L.R. (1957) 570870  
Indian J.Fish., 4(1):134-49  
 A study of the seasonal changes in the dissolved oxygen of the surface waters of the sea on the Malabar coast

The data on oxygen are presented along with data on temperature; salinity and rainfall are discussed in relation to the physical and biological characteristics of the Malabar coast.

CLK:glk

M

Kato, K. (1957) 570871  
Bull.Fac.Fish.Hokkaido, 7(4):291-9  
Particulate iron in the Bering Sea

Kawai, K. (1957) 570874  
Bull.Jap.Soc.sci.Fish., 22:626-30  
(The metabolism of the pearl oyster,  
Pinctada martensii. III. On the tissue  
oxidation). Ni En

Respiration rates of various tissues in  
different seasons; blocking and  
stimulation of gill respiration by a  
series of chemical treatments, show that  
a copper enzyme may play an important  
role.

FAO

M

SJH:sjh

M

Katz, W.E. (1957) 570872  
Engng News Rec., 158(7):59  
Fresh from salt at \$42 per 1000 gallons

Kawamoto, N.Y. (1957) 570875  
Progr.Fish Cult., 19(1):26-31  
Production during intensive carp culture  
in Japan

In this carp farm where rate of  
production is noted to be highest in  
Japan, the excretory products are  
stated to affect production more than  
O<sub>2</sub> or CO<sub>2</sub>.

MF

WAD:tjj

F

Kawada, S. and Y. Tawar (1957) 570873  
Bull.Jap.Soc.sci.Fish., 22:593-7  
(An attempt at measuring deformation of  
the ~~set~~ net by a fish finder  
(Preliminary Report). Ni En

Reports on experiments at Kokabe in  
Nov. 1954, and gives illustrations and  
theoretical analysis of results.

Kenk, R. and W.F. Clapp (1957) 570876  
Washington: Office of Technical Services,  
U.S. Department of Commerce, 350 p.  
(PB131058)  
Marine borers: A preliminary biblio-  
graphy. Part II

Deals mainly with the biology of marine  
borers whereas the first part, which is  
available in microfilm or photostat  
copies, was concerned primarily with  
the engineering aspects.

SJH:sjh

M

:glk

M

Keynes, R.D. (1957) 570877  
In "The Physiology of Fishes". Vol. II.  
Behaviour. Edited by M.E. Brown,  
Academic Press Inc., Publishers, New  
York, pp.323-43  
Electric organs

Kimata, M. et al. (1957) 570880  
Bull.Jap.Soc.sci.Fish., 22:701-7  
(Studies on the marine sulfate-reducing  
bacteria. VI. Production of sulfides in  
the estuarine region of the river  
receiving a large amount of organic  
drainage (1)). Ni En

Distribution of bacteria, and sulfides  
in water and bottom mud of Takano River  
which receives sewage and drainage from  
pulp factories.

FAO

MF

SJH:sjh

MF

Kiefer, F. (1957) 570878  
Veröff.zool.Staatssamml.Münch., 4:125-50  
Freilebende Rudersfusskrebse (Crustacea  
Copepoda) des Titicacasacs (Crustacea  
Copepoda at liberty in lake Titicaca)

Kimmins, D.E. (1957) 570881  
Bull.Brit.Mus.(nat.Hist.), 6(4):91-126  
Lectotypes of Trichoptera from the  
McLachlan collection now in the British  
Museum (Natural History)

F

F

Kikawa, S. (1957) 570879  
Rep.Nankai reg.Fish.Res.Lab., 5:145-57  
(The concentrated spawning area of bigeye  
tuna in the western Pacific). Ni En

Study of "gonad index" = weight of gonad  
(gm.) cube fork length (cm). Feeding  
groups N of subtropical convergence have  
index below 1.0; index 1.1 > 3.0 is  
more southerly and are recruit spawners;  
index > 3.1 are spawners and abundant  
between 2° and 10°N. Some data also for  
yellowfin.

Kimmins, D.E. (1957) 570882  
Bull.Brit.Mus.(nat.Hist.), 6(1):1-37  
New and little known species of African  
Trichoptera

FAO:sjh

M

F



Kimmins, D.E. (1957) 570883  
Bull.Brit.Mus.(nat.Hist.), 6(5):127-36  
New species of the genus Dicercomyzon  
Demoulin (Ephemeroptera, Fam. Trichory-  
thidae)

F

Kimsey, J.B. (1957) 570884  
Calif.Fish Game, 43(2):111-8  
Largemouth bass tagging at Clear Lake,  
Lake County, California

Migration and survival rate of 441 fish  
tagged 6/53 - 3/54 of which 94 were  
returned in three years. Estimate of  
fishing and natural mortality rates.

WAD:sjh

F

Kimsey, J.B. (1957) 570885  
Calif.Fish Game, 43(1):99-100  
The status of the redeye bass in  
California

Clarifies the status of Micropterus  
coosae introduced into hatchery ponds  
in California in 1953; none survived  
after 1955.

IR:wad

F

King, J.E. and M.S. Doty (1957) 570886  
Spec.sci.Rep.U.S.Fish Wildl.Serv.,  
(201):155 p.  
Preliminary report on expedition  
EASTROPIC

The methods used and the results  
obtained, without analysis, on the  
EASTROPIC expedition; an oceanographic  
survey of the central and eastern  
tropical Pacific, September-December  
1955. Information on east-west  
gradients in temperature, salinity,  
phosphate, zooplankton, and forage-fish  
abundance.

GLK:tl

M

Kinsman, B. (1957) 570887  
Tellus, 9(3):408-18  
Proper and improper use of statistics  
in geophysics

A discussion of some of the  
peculiarities of the geophysical  
sciences together with their  
implications for statistical  
methods, particularly for the  
correlation coefficient. In  
conclusion some advice on the use  
of correlations is offered.

FAO:tl

M

Kinsman, S. et al. (Ed.) (1957) 570888  
U.S.Dep.Health, Education & Welfare,  
Publ.Health Serv., Cincinnati, Ohio,  
355 p.  
Radiological health handbook

Glossary, physical, chemical and  
mathematical data; radioisotope, decay  
and radioassay data; radiation protec-  
tion data; table of isotopes; index  
and references.

TL:tl

MF

Kitabayashi, K. (1957) 570889  
Bull. Hokkaido reg. Fish. Res. Lab.,  
(16):100-3  
(Biochemical studies on squid - XVII. On  
pterins). Ni En

Paper-chromatographic analysis of skin,  
liver, ink, muscle and shell of  
Ommastrephes sloani pacificus.

FAO:sjh

M

Kleerekoper, H. (1957) 570892  
Thesis presented at the Faculty of  
Science of the Paris University,  
Ser.A, 3006/3878, 205 p.

Une étude limnologique de la chimie des  
sédiments de fond des lacs de l'Ontario  
méridional, Canada (Study of the  
limnology and sediment chemistry of the  
depths of lakes in southern Ontario,  
Canada)

A detailed description and comparative  
study with very full bibliography.

FiB:sjh

F

Kitakata, M. (1957) 570890  
Bull. Hokkaido reg. Fish. Res. Lab.,  
(16):39-48  
(Fishery biological studies on sand-lance  
(Ammodytes personatus Girard) in waters  
around Hokkaido - II. On the age and  
growth). Ni En

Otolith studies, 4/55-5/56 of material  
collected on Japan sea coast show that  
age can be thus determined. Growth  
curves; regional differences; seasonal  
growth; Ill.

FAO:sjh

M

Kleerekoper, H. and 570893  
K. Sibakin (1957)  
J. Fish. Res. Bd Canada, 14(2):145-51  
An investigation of the electrical  
"spike" potentials produced by the sea  
lamprey (Petromyzon marinus) in the  
water surrounding the Head Region - II.

Experiments to ascertain whether the  
movements of the water in and out of the  
branchial pores or the changes in the  
chemical composition of the water are  
directly responsible for the occurrence  
of the electrical potentials described  
earlier and to determine the locus or  
loci on the head from which the  
potentials are emitted.

GLK:glk

M

Klavestad, N. (1957) 570891  
Nytt Mag. Bot., 5:63-100  
An ecological study of the vegetation  
in Hunnebunnen, an old oyster poll in  
south-eastern Norway

Hydrography of the area; list of flora  
and ecological notes on the saline  
meadows; benthic vegetation and its  
zonation; floral associations and  
general notes on the ecology of the  
area.

FAO:tl

M

Klein, L. (1957) 570894  
Butterworths Scientific Publications,  
London, 634 p.

Aspects of river pollution

Intended primarily to assist those  
directly concerned with the prevention of  
pollution, such as river boards, local  
authorities, and water undertakings, but  
should also be of interest to public  
analysts, sanitary inspectors, and health  
authorities. The book also includes a  
chapter on the effects of pollution on  
fish, by Jones, J.R.E., and one on the  
biological aspects of river pollution,  
by Hawkes, H.A.

:glk

F

Klock, J.W. (1957) 570895  
Amer.J.trop.Med.Hyg., 5:286-9  
 A field technique for quantitative estimation of the molluscicide sodium pentachlorophenate based on fish mortality rates

F

Knauss, J.A. and J.L. Reid (1957) 570898  
Trans.Amer.geophys.Un., 38(3):320-5  
 The effect of circles design on the accuracy of the GEK

Simultaneous observations with a GEK and a drifting drogue were made in order to test validity of the GEK for surface current measurements. Good agreement between the average GEK velocity and the average drogue velocity is obtained when allowance is made for windage and droop.

GLK:tl

M

Knauss, J.A. (1957) 570896  
Chron.U.G.G.I., (7):248-9  
 U.S. Pacific Ocean deep-water ship operation

Gives brief summary of the operational plans and tentative tract charts for different cruises.

FAO:efa

M

Knobloch, A., C. Vendrely 570899  
 and R. Vendrely (1957)  
Biochim.biophys.Acta, 24:201-2  
 The amount of desoxyribonucleic acid in a single trout sperm

Brief account of determination of desoxyribonucleic acid content of Salmo irideus sperm.

FAO:efa

F

Knauss, J.A. (1957) 570897  
Tellus, 9(2):234-7  
 An observation of an oceanic front

A detailed temperature section across an oceanic front in the Eastern Equatorial Pacific is described.

FAO:glk

M

Knop, L. and 570900  
 J. Kristan (1957).  
Rep.J.Stefan Inst., 3:141-8  
 Beitrag zur Kenntnis der Wasserisotopenindisproportionierung nach einigen Wandlungsprozessen normalen wassers (Contribution to the knowledge of the disproportionizing of water isotopes after some processes of changes of normal water)

Description of the modified method of oxygen equilibration by SO<sub>2</sub>. Results of measurements of isotope distribution in waters of different origin.

:tl

MF



Knox, G.A. (1957) 570901  
Trans.roy.Soc.N.Z., 85(1):141-8  
Urechis novae-zealandiae (Dendy): a  
New Zealand echiuroid

The species is described and illustrated.

FAO:hr M

Knudson, B.M. (1957) 570902  
J.Ecol., 45:93-112  
Ecology of the epiphytic diatom,  
Tabellaria flocculosa (Roth) Kütz.var.  
flocculosa in three English lakes

Population density and its rate of change  
measured at 10 day intervals for 4 years  
in the Lake District, at various levels  
and depths. Relation to environmental  
factors, principally light, nutrients,  
temperature, grazing, parasitism and  
wave action.

FAO:sjh F

Kobayashi, K. (1957) 570903  
Bull.Fac.Fish.Hokkaido, 7(1):21-30  
(An experiment on a mid-water trawl.  
IV. On its mechanism and a trial  
practice). Ni En

Mathematical and experimental study of  
a full-scale model having two light  
otter boards, a depressor and a depth  
indicator.

FAO:sjh II

Kobayashi, K. and 570904  
S. Igarashi (1957)  
Bull.Fac.Fish.Hokkaido, 7(1):17-20  
Mathematical analysis of the filtering-  
rate of plankton net

Deduces an expression for the relation  
between filtering rate and current  
speed inside a conical net, which is  
less than that outside.

FAO:sjh M

Koch, W. (1957) 570905  
Verlag Paul Parey, 300 p.  
Fischzucht (Fish breeding). (2nd ed.)

Kohn, A.J. and P. Helfrich (1957) 570906  
Limnol.Oceanogr., 2:241-51  
Primary organic productivity of a  
Hawaiian coral reef

Primary organic productivity was deter-  
mined by measuring changes in oxygen  
concentration of sea water flowing over  
a fringing coral reef at Kapaa, Kauai,  
Hawaii. Prevalence of a rather strong,  
undirectional current facilitated use of  
this method. Determinations were made  
both in summer (July) and in winter  
(November). The authors attribute this  
difference to photosynthesis by benthic  
algae on the coral reef platform.

HR:tl M



Kojima, S. (1957) 570907  
Bull.Jap.Soc.sci.Fish., 22(12):730-5  
(Reactions of fish to a shade or floating substances). Ni En

Describes aquarium experiments with parrot bass, Oplegnathus fasciatus, and filefish, Monacanthus cirrhifer. Species and size differences in feeding and other reactions.

SJH:sjh

M

Kokhanova, N.A. (1957) 570908  
Vop.Ikhtiolog., 8:89-101  
Razvitie shchipovki (Cobitis taenia L.)  
(The development of Cobitis taenia L.)

Description of the embryonic, larval and post-larval development and first feeding with comparison with groundling, cobitids, and carps.

FAO:glk

F

Kolbe, R.W. (1957) 570909  
Rep.Swed.Deep-Sea Exped., 9(1):50 p.  
Diatoms from equatorial Indian Ocean

Kolbe, R.W. (1957) 570910  
Science, 126:1053-6  
Fresh-water diatoms from Atlantic deep-sea sediments

Reports findings of Melosira granulata, with notes on location of finds and origin of fresh-water diatoms.

FAO:efa

MF

Kolesnikov, V.G. (1957) 570911  
Fish Ind., Moscow, (11):69-76  
O vliianii gidrologicheskikh uslovii na raspredelenie i povedenie seldi v Norvezhskom more (Influence of hydrologic conditions on the distribution and behaviour of herrings in the sea of Norway)

Data collected in 1956 by research ships. Cold and warm currents determined by wind, bottom relief and tides. Response of herring shoals to surface waves. Relation between inner, vertical waves and depth positions of shoals. Forecasts, duration of ship's drift, number of nets in the line.

FAO:go

M

Komaki, S. (1957) 570912  
Bull.Hokkaido reg.Fish.Res.Lab., (15):84-91  
(Seasonal variations in the concentrations of net-plankton pigments in sea water).  
Ni En

Chlorophylls and carotenoids estimated by Richard and Thompson method, 1/54-12/55 in Hokkaido waters.

FAO:sjh

M

Komarovsky, B. and 570913  
 O.H. Oren (1957)  
Fish.Bull., Haifa, (14):14-6  
 (Biological and oceanographical  
 conditions in the Gulf of Eylath).  
 Iw En

Water samples; figures of plankton spp.;  
 relation of these to changes in pelamid  
 abundance.

SJH:sjh

M

Komarovsky, B. and 570914  
 L. Schwarz (1957)  
Fish.Bull., Haifa, (11):8-12  
 (Problems of ship fouling, history and  
 progress of fouling research in Israel).  
 Iw En

Results of raft tests in Haifa port  
 with Cu<sub>2</sub>O paints.

SJH:sjh

M

Kominz, D.R., F. Saad 570915  
 and K. Laki (1957)  
Nature, Lond., 179:206-7  
 Vertebrate and invertebrate tropomyosins

Reports the preparation and examination  
 of tropomyosins from fishes and various  
 invertebrate phyla.

GLK:glk

MF

Konishi, J. (1957) 570916  
Rep.Fac.Fish.Univ.Mie-Tsu, 2:347-52  
 A clue to the investigation of the  
 control of breathing in fish by means  
 of electrical activity in the muscle  
 located on the regions of the gills

Measures of action potentials on surface  
 of gill lamellae of intact Carassius  
auratus (L.) on isolated gills, and at  
 the respiratory centre.

FiB:sjh

F

Konishi, J. (1957) 570917  
Rep.Fac.Fish.Univ.Mie-Tsu, 2:353-8  
 Respiratory reflex response in fish

Study of respiratory response to touch  
 stimulus in unanaesthetized Carassius  
auratus L. by electromyogram recording  
 in gill region.

FiB:sjh

F

Konstantinov, K.G. (1957) 570918  
Fish Ind., Moscow, (12):61-2  
 Argentina - neispolzovannaia promyslovaia  
 ryba (Argentina silus (Acanius) -  
 an unutilized commercial fish)

High nutritive value of this deep sea  
 salmonid. Brief description of N.  
 Atlantic abodes, average sizes, food.  
 Precise data on Argentina reserves are  
 wanting.

FiB:gc

M

Korobochkina, Z.S. (1957) <u>Fish.Ind., Moscow, 33(1):71-2</u> Soveshchanie po biologicheskim osnovam rybnogo khoziaistva (Meeting regarding biological principles in fishery)	570919	Kosal, N.H. (1957) <u>Balık Balıkçılık, 5(1):8-13</u> İki istinga halatı kullanan gırgırlar (Improving gir-gir seines)	570922
		Translation of article from "World Fishing", May 1956, by a Russian scientist, A.N. Samarynov.	

FAO	MF	SJH:sjh	M
Korringa, P. (1957) <u>Ann.Biol., Paris, 33(3-4):109-16</u> On the supposed compulsory relation between oviparous oysters and waters of reduced salinity  Comparison of ecological requirements of oviparous oysters and those of larviparous oysters, with special reference to salinity and food availability.	570920	Koshelev, B.V. (1957) <u>Zool.Zh., 36(8):1217-27</u> Nekotorye dannye po biologii razmnozheniia sazana v del'te Volgi (Certain data on the biology of reproduction of carp in the Volga estuary)  Age composition of a carp shoal, its sites and time of spawning, relation of spawning to the level of flood and to the temperature are described.	570923

FiB:glk	MF	FAO:tl	F
Korringa, P. (1957) <u>Ann.Biol., Paris, 33(1-2):1-17</u> Water temperature and breeding throughout the geographical range of <u>Ostrea edulis</u>  Examination of the evidence on the temperatures at which various species and varieties of oysters spawn, with reference to the hypothesis that breeding temperature is not a physiological constant, at least for the species <u>Ostrea edulis</u> .	570921	Koster, W.J. (1957) <u>University of New Mexico Press,</u> <u>Albuquerque, 116 p.</u> Guide to the fishes of New Mexico. (1st ed.)	570924

FiB:glk	MF		MF
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<p>Kotake, N. and 570925  M. Kawamura (1957)  <u>Bull.Jap.Soc.sci.Fish.</u>, 23(6):287-9  Experimental studies on the propagation of the pearl oyster, <u>Pinctada martenssi</u> -  IV. Sexual difference in the external shape of the shell</p> <p>Relation of shell height to length in 3-4 years old shells collected on coast of Hiwasa, Tokushima. Relative growth rates do not permit identification of sex.</p> <p>SJH:sjh M</p>	<p>Kozhin, N.I. (1957) 570928  <u>Vop.Ikhtiolog.</u>, 8:8-18  Materialy po ikhtiofaune iranskogo poberezh'ia Kaspiia (Materials on the ichthyofauna of the Iranian shores of the Caspian)</p> <p>Notes on distribution, catch, size, biology, etc. of the following species: <u>Huso huso</u> L., <u>Acipenser guildenstadti</u> persicus Borodin, <u>Acipenser stellatus</u> Linne, <u>Rutilus rutilus caspicus</u> (Jakowlew), <u>Rutilus frisii kutum</u> (Kamensky), <u>Abramis brama</u> (Linne), <u>Cyprinus carpio</u> Linne, <u>Vimba vimba persa</u> (Pallas), <u>Chalcalburnus chalcoides</u> (Guldentadt), <u>Mugil auratus</u> Risso, <u>M. saliens</u> Risso, <u>Lucioperca lucioperca</u> L.  FAO:glk FM</p>
<p>Kott, P. (1957) 570926  <u>Aust.J.Mar.Freshw.Res.</u>, 8:64-110  The ascidians of Australia - II. Aplousobranchiata Lahille: Clavelinidae Forbes and Hanly and Polyclinidae</p> <p>Description, distribution, keys and full bibliography.</p> <p>GLK:sjh M</p>	<p>Kramp, P.L. (1957) 570929  'Discovery' Rep., 29:1-28  Hydromedusae from the Discovery collections</p> <p>A taxonomic list. Under each species are given the most important references to the literature, list of collection stations, history, remarks on the morphology and the geographic distribution. A summary of zoogeographical results is also given.</p> <p>FAO:hr M</p>
<p>Kotthaus, A. and G. Krefft (1957) 570927  <u>Ber.dtsch.Komm.Meeresforsch.</u>, 14(3):169-91  Fischfaunenliste der Fahrten mit F.F.S. ANTON DOHRN nach Island-Grönland (The faunal list of fishes from the cruises of the ANTON DOHRN to Iceland-Greenland)</p> <p>List of species with dates of capture, area depth of water, temperature of the bottom water. The number of fish caught in each locality and their length range. Notes on the species, first recorded in the area of investigation.</p> <p>FAO:tl M</p>	<p>Krauss, W. (1957) 570930  <u>Dtsch.hydrogr.Z.</u>, 10(1):13-9  Das Zirkulationstheorem von V. Bjerknes und seine Anwendung in der Ozeanographie (V. Bjerknes' circulation theorem and its application to oceanographic research)</p> <p>From V. Bjerknes' circulation theorem a new formula is derived allowing practical computations of ocean currents to be made. The range of validity of the old formula can be deduced from the new one if the order of magnitude of horizontal shearing as well as that of the divergences are known.</p> <p>FAO:tl M</p>



<p>Kreiss, H. (1957) 570931  <u>Tellus</u>, 9:53-68  Some remarks about nonlinear oscillations in tidal channels</p> <p>With the aid of a perturbation method the equations are integrated and it is shown that for sufficiently small ratio maximum of the flow/mean depth one can approximate the solution by two harmonics. This approximation is examined in detail.</p>	<p>Krishna Pillai, V. (1957) 570934  <u>Proc.Indian Acad.Sci.</u>, 45B:101-21  Chemical studies on Indian seaweeds.  3. Partition of sulfur and its relation to the carbohydrate content</p>
<p>FAO:t1 M</p>	<p>M</p>
<p>Krey, J., K. Banse and E. Hagmeier (1957) 570932  <u>Kieler Meeresforsch.</u>, 13(1):35-40  Über die Bestimmung von Eiweiss im Plankton mittels der Biuretreaktion (On the determination of albumen in plankton by biuret reaction). En</p> <p>Description of the method.</p>	<p>Krishnamurthi, B. et al. (1957) 570935  <u>Proc.Indian Acad.Sci.</u>, 45B:165-75  Investigation of large-scale fish mortality in a temple tank in Madurai</p>
<p>TL:t1 M</p>	<p>F</p>
<p>Krishna Pillai, V. (1957) 570933  <u>Proc.Indian Acad.Sci.</u>, 45B:43-63  Chemical studies on Indian seaweeds.  2. Partition of nitrogen</p>	<p>Kruglova, V.M. (1957) 570936  <u>Vop.Ikhtiol.</u>, 8:116-28  Kormovaia baza bentoiadnykh ryb Veselovskogo vodokhranilishcha i prichiny tugoroslosti sazana (Fodder basis of benthos-feeding fish of the Veselovsky reservoir and the reasons for the slow growth of carp)</p> <p>History of the reservoir since 1933; discussion of the benthos and its provision of food for carp and sudak with proposals for establishment of most useful benthic fauna.</p> <p>FAO:glk F</p>

Kryzhanovskii, S.G. (1957) <u>Vop.Ikhtiolog.</u> , 8:81-8 O partenogeneticheskom razvitii Sakhalinskoi sel'di po materialam nerestovogo sezona 1955 g. (On parthenogenetic development of the Sakhalin herring from materials of the 1955 spawning season)	570937	Kühl, H. and H. Mann (1957) <u>Veröff.Inst.Meeresf.</u> , 5(1):34-62 Beiträge zur Hydrochemie der unteren Weser (Contribution to the hydro- chemistry of the lower Weser)	570940
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Data on water temperature, salinity, pH, alkalinity, carbonate content, oxygen, silicon, nitrogen compounds, phosphates, iron and manganese and turbidity of the lower Weser.

FAO	M	GLK:tl	MF
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Kudinova-Pasternak, R.K. (1957) 570938  
Zool.Zh., 36(6):847-51  
On the penetration possibility of Torpedo  
navalis into the Caspian Sea

Experimental proof of this possibility  
and quarantine proposals that might  
control it.

Kufferath, H. (1957) 570941  
Bull.Inst.oceanogr., Monaco, (1957):1-10  
Examen microscopique d'ultraplankton  
recueilli au large de Monaco  
(Microscopic examination of the ultra-  
plankton collected off Monaco)

Describes the organisms collected.

FAO:glk	M	FAO:hr	M
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Kudriavtseva, E.S. (1957) 570939  
Zool.Zh., 36(9):1292-303  
Parasitofauna ryb reki Sukhony i  
Kubenskogo ozera (Parasitofauna of  
the fishes inhabiting the Sukhona river  
and the Kubenskoe lake)

During the spring and summer of 1951-1954,  
778 examples of fishes pertaining to  
different species were exposed to the  
complete parasitological dissection.  
96 species of parasites have been found,  
36 of them were recorded for the first  
time in the European region. A number of  
parasites pathogenetic with respect to  
man and other species of fish were found.

Kufferath, J. (1957) 570942  
Bull.Inst.oceanogr., Monaco, (1957):1-8  
Tentative d'estimation gravimétrique de  
l'ultraplankton dans l'eau de la  
Méditerranée (Tentative gravimetric  
appraisal of the ultraplankton in  
Mediterranean waters)

Describes methods and experiments to  
measure the quantity of bacteria and  
other components of the ultraplankton  
in sea water.

FAO:tl	F	FAO:hr	M
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Kunze, W. (1957) 570943  
Int.hydr.Rev., 34(2):65:75  
Aspects généraux du sondage acoustique  
horizontal pour la navigation  
(General aspects of the application of  
horizontal acoustic sounding to  
navigation)

Brief description of methods and  
apparatuses at present available and  
discussion of general aspects of their  
use with special reference to the  
merchant marine.

FAO:glk

M

Kuznetsov, A.P. (1957) 570944  
Fish Ind., Moscow, (10):44-6  
Polia pitaniia domnykh promyslovykh ryb  
i kamchatskogo kraba v raione Severnykh  
Kurilskikh ostrovov (Feeding grounds  
of demersal commercial fishes and of  
Kamchatka crabs off the coasts of the  
North Kuril islands)

Importance of the region illustrated by  
catches. Data obtained by research ships  
on species, amounts and distribution of  
benthic live food serving cod, flatfish  
and crab (Paralithodes camtschatica).

FAO:go

M

Laclavère, G. (1957) 570945  
Chron.U.G.G.I., 6:211-39  
International Geophysical Year - IVth  
Antarctic Conference

Agenda, minutes and resolutions of the  
IVth Antarctic Conference.

TL:tl

M

Lacombe, H. (1957) 570946  
Météorologie, 371-91  
L'énergie des mers (Energy in seas)

Lacombe, H. (1957) 570947  
Rev.Quest.sci., 20 July 1957  
L'océanographie physique (Physical  
oceanography)

Ladd, H.S. (Ed.) (1957) 570948  
Mem.geol.Soc.Amer., (67), 1077 p.  
Treatise on marine ecology and  
paleoecology; Vol.2, Paleocology

Contains 24 chapters by different authors  
on the Paleontological Record and the  
Origin of Life, and Analyses from the  
Geologic Record; also 53 annotated  
bibliographies for different systematic  
groups, periods and areas. Index by  
subjects, spp., and authors.

FAO:sjh

M

La Fond, E.C. (1957) 570949  
Indian J.Met.Geophys., 8:213-7  
Sea water density at four stations on  
the east coast of India

Marine Biological Laboratory  
LIBRARY  
OCT 23 1959  
WOODS HOLE, MASS.

M

Lafuste, et al. (1957) 570952  
Rev.Trav.Inst.Pêches marit., 21:401-14  
La reproduction de l'huitre portugaise  
(Gryphaea angulata Lmk) dans les  
centres de captage de la côte atlantique  
... (Reproduction of the Portuguese oyster (G. angulata Lmk)  
in the catchment centres on the Atlantic coast)

Account of collections of larvae in  
relation to temperature and other  
environmental conditions.

FAO:glk

M

La Fond, E.C. and 570950  
P.V. Bhavanarayana (1957)  
Indian J.Met.Geophys., 8:209-12  
On a thermal feature of bottom water  
during upwelling on the east coast of  
India

M

Lamburn, J.B. 570953  
(Crompton, J.) (1957)  
Garden City, N.Y., Doubleday, 233 p.  
The living sea

M

La Fond, E.C. et al. (1957) 570951  
Indian J.Met.Geophys., 8:183-92  
Turbidity of waters off the east coast  
of India

M

Lane, C.E. (1957) 570954  
Sea Frontiers, 3:113-9  
Living power plants

Popular account of occurrence and  
physiology of electric fishes.

HR:sjh

MF



Lange, O. (1957) 570955  
Sankhya, 17:305-36  
Some observations on input-output  
analysis

Account of discussions on analysis of  
inter-industry relations for establishing  
quantitative relations between various  
branches of production.

FAO:efa

MF

Langeraar, W. (1957) 570956  
Int.hydr.Rev., 34(2):31-6  
Emploi du Decca comme aide aux lèves  
hydrographiques de la Nouvelle Guinée  
Néerlandaise (Use of Decca in  
hydrographic surveys of Netherlands  
New Guinea)

Narrative account of operations.

FAO:glk

M

Lapage, G. (1957) 570957  
Penguin Books Ltd, Harmondsworth,  
Middlesex, 1957, 320 p  
Animals parasitic in man

Includes accounts of biology and control  
of human parasites with an aquatic  
intermediate host: Diphyllbothrium  
latum (in freshwater fish: Cyclops and  
Diaptomus); Opisthorchis sinensis,  
Metagonimus yokogawai, Heterophyes h.  
(in freshwater fish, especially  
Plecoglossus altivelis, and snails);  
Paragonimus westermanii (in freshwater  
decapods and snails); Opisthorchis  
sinensis (in cyprinids and snails).

SJH:sjk

P

LaPointe, J.R. (1957) 570958  
Nucleonics, 15(5):114-6  
How radioactive wastes will be handled  
at PWR

MF

Larrañeta, M.G. and 570959  
J. López (1957)  
Invest.pesq., 6:53-82  
El crecimiento de la sardina (Sardina  
pilchardus (Walb.)) de las costas de  
Castellón (The growth of sardine  
from Castellon coast)

Study based on scale reading. Scale to  
length relation were determined. The  
results are discussed with regard to  
age-composition of catch, the limiting  
size, differences in growth, and the  
period of growth and the causes thereof.

FAO:glk

M

Larsen, J.A. (1957) 570960  
Madison, University of Wisconsin, 160 p.  
Wisconsin's renewable resources;  
research at the University of Wisconsin  
into the renewable resources of field,  
forest, lake, and stream.

F

<p>Laserson, C.F. (1957) 570961  <u>Aust.Zool.</u>, 12:263-82  New South Wales mussels - A taxonomic review of the family Mytilidae from the Peronian zoogeographical province</p> <p>21 species are discussed and figured; one generic and five new specific names are listed together with two new records from the Province. Original descriptions have been amplified, taxonomic comparisons made, and new data added on the distribution of the various species.</p> <p>FAO:glk M</p>	<p>Lassarat, A. (1957) 570964  <u>Sci.Pêche</u>, 44:1-6  La pêche du thon en Côte d'Ivoire (Tuna fishery in the Ivory Coast)</p> <p>Notes on the occurrence and fisheries of <u>Neothunnus albacora</u>, <u>Katsuwonus pelamis</u> and <u>Euthynnus alliteratus</u>.</p> <p>FAO:hr M</p>
<p>Láska, F. (1957) 570962  <u>Biológia</u>, 12:292-7  Příspěvek k poznání vodulí (Hydrachnellae) Vysokých Tater I. Druh <u>Wandesia thori</u> Schechtel 1912 (Contribution to the knowledge of Hydrachnellae in High Tatra). Ru De</p> <p>Reports findings of <u>Wandesia thori</u> Schechtel and incl. ill. notes on the biology of the sp.</p> <p>FAO:efa F</p>	<p>Laughton, A.S. (1957) 570965  <u>Deep-Sea Res.</u>, 4:120-5  A new deep-sea underwater camera</p> <p>A deep-sea underwater camera containing several new design features is described. Some examples of its use in biological and geological surveys of the ocean floor are given.</p> <p>FAO:tl M</p>
<p>Lasker, R. and R.W. Holmes (1957) 570963  <u>Nature, Lond.</u>, 180:1295-6  Variability in retention of marine phytoplankton by membrane filters</p> <p>Three laboratory experiments to determine the retention of <u>Dunaliella euchlora</u>, a phytoflagellate grown in sea-water medium, by using membrane filters of different porosities.</p> <p>GLK:tl M</p>	<p>Laughton, A.S. (1957) 570966  <u>Discovery</u>, 18(2):59-62  Photography of the deep-sea floor</p> <p>Illustrated account of camera design and operation.</p> <p>FAO:sjh M</p>

Laughton, A.S. (1957)  
J.R. Soc. Arts, 106:39-56  
Exploring the deep ocean floor

570967

Reviews the aim and modern techniques of deep-sea exploration and gives a brief account of the joint geophysical cruise planned by Department of Geodesy and Geophysics at Cambridge and the National Institute of Oceanography.

GLK:efa

M

Lauzier, L. (1957) 570970  
Bull.Fish.Res.Bd Can., (111):287-317  
Hydrographic features of the waters of the Bay of Islands, Newfoundland, in the autumn

The seasonal temperature variations indicate a slow vernal warming and a rapid autumnal cooling. Year-to-year variations in the autumn temperature stratification occurred chiefly in the upper layers. Repeated observations during a tidal cycle at several stations in the area show variations in depth of either the thermocline, or the isotherms, or both. The salinity stratification in the upper ten metres of the surface

Lauzier, L. (1957) 570968  
Bull.Fish.Res.Bd Can., (111):269-85  
Bottom temperatures on the Magdalen Shallows

The distribution of bottom temperatures on the Magdalen Shallows and their seasonal variations. The stratification of the waters in the area is considered to be a controlling factor of such variations. The characteristics of the layers, mainly their depth, thickness and temperature, vary with time and space. The bottom temperature is then a function of depth, time and location.

FAO:glk

M

570970  
(card 2)  
layer is very variable, presumably depending to a certain extent of the run-off from the Humber River system.

FAO:glk

MF

Lauzier, L. (1957) 570969  
Bull.Fish.Res.Bd Can., (111):185-92  
Effects of storms on the water conditions in the Magdalen Shallows

Extreme variations in temperature and salinity have been observed at depth, during the summer months, off North Rustico, P.E.I. and Cheticamp, N.S. These were correlated with wind force and direction, controlling factors of internal adjustment of water layers according to Ekman's theory of wind-driven currents.

FAO:glk

II

Lauzier, L. (1957) 570972  
Bull.Fish.Res.Bd Can., (111):193-4  
The St. Lawrence spring run-off and summer salinities in the Magdalen Shallows

During the years 1945-49 the minimum salinity of the southwestern Gulf of St. Lawrence tended to vary inversely with the estimated April-June run-off from the St. Lawrence watershed.

FAO:glk

MF



Lauzier, L. (1957) 570973  
Bull. Fish. Res. Bd. Can., (111):251-68  
 Variations of temperature and salinity  
 in shallow waters of the southwestern  
 Gulf of St. Lawrence

Analysis of repeated temperature and  
 salinity observations at fixed stations  
 in the southwestern Gulf of St. Lawrence,  
 during the period 1945-49, show that  
 minimum surface salinity and maximum  
 summer temperature occur in the area  
 from early to mid-summer depending on  
 the location. Below the surface, the  
 maximum temperature and minimum salinity  
 occur at a later date than at the  
 surface.

FAO:glk

M

Lauzier, L. and W.B. Bailey (1957) 570974  
Bull. Fish. Res. Bd. Can., (111):213-50  
 Features of the deeper waters of the Gulf  
 of St. Lawrence

Several cruises in the Gulf of St.  
 Lawrence in 1947 and 1948 enabled the  
 seasonal changes in the stratification  
 of the deeper waters of the Laurentian  
 Channel to be studied. The intermediate  
 cold-water layer and the warmer deep  
 layer are dealt with.

FAO:glk

M

Lauzier, L., R.W. Trites 570975  
 and H.B. Hachey (1957)  
Bull. Fish. Res. Bd. Can., (111):195-212  
 Some features of the surface layer of  
 the Gulf of St. Lawrence

Temperature observations in the Gulf of  
 St. Lawrence from 1914 to 1948 inclusive  
 are analysed. Average conditions such as  
 thickness and temperature distribution,  
 from May to November, are described.  
 Temperature and salinity distribution  
 at the surface and at 50 metres during  
 three seasonal cruises are also  
 discussed.

FAO:glk

M

Law, P. and J. Bécjervaise (1957) 570976  
Melbourne, Oxford University Press, 150 p.  
 ANARE Australia's Antarctic outposts

Account of recent survey expeditions  
 describing the operations, icebergs,  
 various areas of the territory and some  
 of the fauna.

:glk

MF

Lawford, A.L. and 570977  
 V.F.C. Voloy (1957)

Trans. Amer. geophys. Un., 38(4):585-6  
 Discussion of "Evidence for a critical  
 wind velocity for air-sea boundary  
 processes" and "Change in the relation-  
 ship between wind and surface water  
 movement at higher wind speeds"

Discussion of the original articles by  
 Mandolbaum, H. (1956), Trans. Amer.  
geophys. Un., 37(6):685-90, and by  
 Lawford, A.L. et al. (1956), Trans. Amer.  
geophys. Un., 37(6):691-3. The results  
 obtained with different methods for the  
 relationship between wind velocity and  
 movement of the surface water.

GLK:tl

M

Laws, R.M. (1957) 570978  
Nature, Lond., 179:1011-2  
 Polarity of whale ovaries

The corpora albicantia of the ovaries of  
 fin whales (Balaenoptera physalus) and  
 blue whales (B. musculus) are grouped  
 towards the anterior pole of the ovary.  
 The asymmetry is more accentuated in fin  
 whales than in blue whales implying that  
 ovulation generally takes place from the  
 anterior part of the ovary which lies  
 in close relation to the ostium  
 abdominale.

GLK:hr

M



Lawson, G.W. (1957) 570979  
J.W.Afr.Sci.Ass., 3(2):166-74  
Some features of the intertidal ecology  
of Sierra Leone

The coastline of the Sierra Leone peninsula is described and relevant information given concerning the physical conditions, tides, and currents that influence it. The general features of the intertidal zonation of some common organisms on the rocks in the estuary, and on the west-facing coast of the peninsula are described.

FAO:tl

Lea, C.H. (1957) 570980  
J.Sci.Fd Agric., 8(1):1-32  
Deteriorative reactions involving  
phospholipids and lipoproteins

Describes method of aerating oxygen-depleted deep layers of lakes unable to support destructive oxidation of objectionable organic sediments by a ship which draws up and aerates the water.

FAO:wad

F

le Danois, E. (1957) 570981  
George G.Harrap and Co.Ltd, London,  
190 pp.  
Fishes of the world

A comprehensive encyclopedia of the world's fishes, incl. scientific data on the various spp. and habitats. 6 chapters on some natural laws in the ocean; the northern, temperate, tropical and southern regions; and the depths of the ocean.

:glk

MF

Legand, M. (1957) 570982  
Rapp.sci.Sect.Océanogr.Inst.franç.  
Océanie, (1):5 p.  
ORSOM III - Résultats biologiques de  
l'expédition EQUAPAC (ORSOM III -  
Biological results of EQUAPAC  
expedition)

Report on 300 plankton collected, fish caught and the activities of birds and predatory fish.

TL:glk

M

Légaré, J.E.H. (1957) 570983  
J.Fish.Res.Bd Can., 14:521-52  
The qualitative and quantitative  
distribution of plankton in the Strait  
of Georgia in relation to certain  
oceanographic factors

The distribution of physical and chemical properties of the water is described and the extent to which these properties may determine the presence or absence of certain organisms in the plankton, is discussed. Composition, abundance and distribution of the plankton are reported.

GLK:glk

M

Leicester, J. (1957) 570984  
Brit.chem.Engng., 2:364-7  
Nuclear heat for desalting brackish or  
salt water

MF

Leim, A.H. (1957) 570985  
Bull.Fish.Res.Bd Can., (111):177-84  
Fatness of herring in Canadian Atlantic waters

Fat determinations, by ether extraction, were made on 154 samples of herring from the Gulf of St. Lawrence, the outer coast of Nova Scotia and southern and western Newfoundland from 1944 to 1949.

FAO:glk

M

Lomercier, A. (1957) 570988  
C.R.Acad.Sci., Paris, 244:1280-3  
Sur le développement in vitro des embryons d'un crustacé isopode asellote: Jaera marina (Fabr.) (On the embryonic development in vitro of an asellote isopod crustacean: Jaera marina (Fabr.))

Description of culture experiments with this species at various temperatures.

FAO:sjh

M

Leim, A.H., S.N. Tibbo 570986  
and L.R. Day (1957)  
Bull.Fish.Res.Bd Can., (111):35-83  
Explorations for herring in Canadian Atlantic waters, 1945-50

Statistical data on herring; explorations with sonic sounding, purse seining, bottom trawling, mid-water trawling and gill netting.

FAO:glk

M

Lénier, R. (1957) 570989  
France Pêche, 2(11):18  
La concentration des poissons migrateurs (The concentration of migrating fish)

Brief discussion on the distribution of tuna and other species.

FAO:glk

M

Leitilä, N. (1957) 570987  
FiskTidskr.Finl., 64(1):20-1  
Kalan suomen kasvurenkaan muodostumisesta (The formation of year rings on the fish scale)

Notes on the time of year-ring formation by carp.

FAO:tl

F

Lennon, R.E. (1957) 570990  
Progr.Fish Cult., 19:179-81  
Observations on wild, long-jaw rainbow trout

Describes the occurrence and characteristics of a mandibular anomaly in Salmo gairdneri from a stream in the southern U.S.

WAD:wad

F

Lenoble, J. (1957) 570991  
Bull.Com.cent.Océanogr., 9(10):551-64  
Spectrophotomètre photoélectrique sous-  
marin (Underwater photoelectric  
spectrophotometry)

Discussion of the physical problems  
involved; description of the apparatus  
and report of results obtained from  
first trials.

FAO:glk

M

Levvy, G.A., A.J. Hay 570994  
and C.A. Marsh (1957)  
Biochem.J., 65:203-8

Properties of limpet  $\beta$ -glucuronidase

Account of work for distinguishing  
between Patella vulgata  $\beta$ -glucuronidase  
and the other hexuronidases present in  
preparation.

FAO:efa

M

Lévêque, R. (1957) 570992  
Terre et la Vie, 2-3:231-40  
Notes sur la faune ichthyologique de  
Camargue (Notes on the ichthyological  
fauna of Camargue)

Notes on the local distribution, abundance  
and size of fresh, brackish and marine  
species of fish.

FAO:hr.

MF

Lewin, R.A. (1957) 570995  
Canad.J.Res.(Bot.), 35(3):321-6  
Four new species of Chlamydomonas

Four new species of Chlamydomonas are  
described. C. euryale was isolated from  
sea water; C. mexicana, C. philotes, and  
C. ulvaënsis were isolated from soil.  
C. mexicana is heterothallic, and C.  
philotes homothallic.

FAO:tl

M

Levi, C. (1957) 570993  
Bull.Res.Coun.Israel, 6B(3-4):201-12  
Spongiaires des côtes d'Israel  
(Spongiae of the coasts of Israel)

Illustrated description of 30 spp., one  
of which, Axinella minuta nov. sp. is  
new.

FAO:zjn

M

Lewis, B.L. (1957) 570996  
Amer.Scient., 45(3):178A-86A  
Mapping scientific progress

Discusses the possibility of obtaining  
an outline map of the state of science  
and its probable advantage.

FAO:efa

MF

Lewis, J.R. (1957) 570997  
Oikos, 8(2):130-60  
 An introduction to the intertidal ecology  
 of the rocky shores of a Hebridean  
 Island

General account of the more important  
 components of the rock shore populations  
 of North Uist in the Outer Hebrides.

FAO:sjh

M

Libonati, M. (1957) 571000  
Ric.sci., 27:1848-52  
 Osservazioni sulla respirazione degli  
 spermi di riccio di mare (Observations  
 on the respiration of sea-urchin  
 spermatozoa)

The action of several intermediary  
 compounds of the Krebs cycle and of  
 several aliphatic alcohols upon the  
 respiration of sea-urchin spermatozoa  
 was investigated. These substances,  
 whereas they increase sperm respiration,  
 are not metabolized by the cells.

FAO:sjh

M

Lewis, R.M. (1957) 570998  
Spec.sci.Rep.U.S.Fish Wildl.Serv., 204:31p  
 Comparative study of populations of the  
 striped bass

Account of study to determine value of  
 gill raker counts as a taxonomic tool  
 in classifying populations of Roccus  
saxatilis of US.

FAO:efa

MF

Liedes, M. (1957) 571001  
FiskTidskr.Finl., 64(5):139-41  
 Kalaveden ha-arvon arvioimisesta  
 (Evaluation of hectare value in fishery  
 waters)

Notes on the evaluation of economic  
 productivity of water areas.

FAO:tl

MF

Li, Sze-chung (1957) 570999  
Acta zool.sinica, 9:227-32  
 (On a new fish, Lembeichthys furcocauda-  
lis sp. nov. (Blenniidae) from South  
 China Sea). Ch En

Describes the new species together with  
 redescription of the related genus.

FAO:hr

M

Lietmann, H. (1957) 571002  
Fischwirt, (7):178-80  
 Richtige Laichteiche sichern das  
 Laichgeschäft bei Kaltlufteinbrüchen  
 (Proper spawning pond ensures spawning  
 during cold frosts)

Construction of spawning ponds for  
 carp.

FAO:tjj

F



Lillelund, K. (1957) 571003  
Kurze Mitt.Inst.FischBiol.Univ.Hamburg,  
( ) :29-39

Versuche zur Verdauungsgeschwindigkeit bei der Brut vom Hecht (Esox lucius L.), kleiner Maräne (Coregonus albula L.) und grosser Maräne (Coregonus holsatus Thienemann) (Experiments in estimation of the digestion speed in the brood of pike (Esox lucius L.), vendace (Coregonus albula L.) and whitefish (Coregonus holsatus Thienemann) )

Eurytemora affinis was fed for one hour to fry which were then transferred to an aquarium with cyclopids; the passage of the calanids and cyclopids through the alimentary tract was recorded by hourly sampling.

FAO:glk

F

Lindroth, A. (1957) 571006  
Arch.Hydrobiol.(Plankt.), 53:582-97  
Abiogenic gas supersaturation of river water

FAO

F

Limbert, D.W.S. (1957) 571004  
Mar.Obs., 27(175):28-31  
Voyage of Royal Society's advance party to the Antarctic

Description of the voyage with data on sea surface temperature.

FAO:tl

M

Lindsey, C.C. (1957) 571007  
J.Fish.Res.Bd Can., 14:651-68  
Possible effects of water diversions on fish distribution in British Columbia

The known distributions of freshwater fishes in drainages of the British Columbia mainland are summarized, including those of five species not previously recorded from the province. The biological consequences of certain proposed water diversions are discussed.

GIK:glk

F

Lindauer, V.W. (1957) 571005  
Trans.roy.Soc.N.Z., 85(1):61-74  
A descriptive review of the Phaeophyceae of New Zealand

Gives a system of keys for the taxonomic and ecological classification of the New Zealand Phaeophyceae.

FAO:hr

M

Lineikin, P.S. (1957) 571008  
G.R.Acad.Sci.U.R.S.S., 116:389-92  
Ob ustanovivshikhsia vetrovykh techeniakh i raspredelenii plotnosti v glubokom more (Steady wind-driven currents and distribution of density in deep seas)

Calculations, in which the turbulent diffusion in seas with varying depths is disregarded.

FAO:so

M

Lisitzin, E. (1957) 571009  
C.R.Acad.Sci.U.R.S.S., 115(6):1107-10  
 Novye dannye o moshchnosti i usloviakh  
 zaleganiia rykhlykh otlozhenii severo-  
 zapadnoi chasti Tikhogo okeana  
 (New data on the thickness and bedding  
 conditions of soft deposits in the north-  
 western part of the Pacific)

FAO M

Lisitzin, E. (1957) 571012  
Merentutkimuslait.Julk., 170:1-78  
 Vedenkorkeusarvoja 1949 ja 1950  
 (Water level records for the years  
 1949-50)

Data from 13 marcographs and 11  
 stations along the Finnish coast.

FAO:t1 M

Lisitzin, E. (1957) 571010  
J.Cons.Int.Explor.Mer., 22(2):147-51  
 The tidal cycle of 18-6 years in the  
 oceans

Regional distribution of sea-level  
 oscillation is described, phase lag  
 between stations is related to longitude,  
 N. or S. hemisphere, or whether coast  
 is to West or East.

GLK:sjh M

Liston, J. (1957) 571013  
J.gen.Microbiol., 16:205-16  
 Occurrence and distribution of bacterial  
 types on flatfish

M

Lisitzin, E. (1957) 571011  
Merentutkimuslait.Julk., 175:1-12  
 The frequency of extreme heights of sea  
 level along the Finnish coast

Analyses on seasonal occurrence of  
 maximum sea levels along Finnish coasts.

FAO:t1 M

Littmann, W. (1957) 571014  
Commun. pure appl.Math., 10(2)  
 On the existence of periodic waves near  
 critical speed

M

Liu, H.K. (1957) 571015  
Proc. Amer. Soc. civ. Engrs, 83, HY2, (1197):  
23 p.  
Mechanics of sediment-ripple formation

M

Liubimova, T.G. (1957) 571016  
Fish. Ind., Moscow, (12):62-4  
O raspredelenii shprota v severo-zapadnoi  
chasti Chernogo moria (Distribution  
of sprat in the N.W. areas of the Black  
Sea)

Tentative study of the behaviour and  
distribution of sprat (Sprattus sprattus  
phalericus) in the Black Sea. Preference  
of colder areas and strata, due to  
northern origin of this fish, should  
guide further studies in view of  
commercial fishing.

FiB:go

M

Llewellyn, J. and 571017  
J.E. Green (1957)  
J. Mar. biol. Ass. U.K., 36(1):77-9  
The occurrence at Plymouth of  
Dictyocotyle coeliaca Nybelin, 1941  
(Trematoda: monogenea)

In a sample of over 1000 rays the 'very  
rare' monogenetic trematode Dictyocotyle  
coeliaca Nybelin 1941 (total of four  
previous records) was found in the  
coelom of 35 out of 135 specimens of Raia  
naevus, but absent from 478 R. clavata,  
420 R. montagui and 34 R. brachyura.

HR:hr

M

Loeb, H.A. (1957) 571018  
N.Y. Fish Game J., 4(1):109-18  
Night collection of fish with electricity

MF

Logie, R.R. (1957) 571019  
Circ. Atlant. biol. Sta. gen. Ser., (28):3 p.  
Recent oyster mortalities and a method  
for restoring the fishery

Reports account of mortalities up to  
date in Atlantic coast of Canada and  
describes method of rehabilitation.

FAO:efa

M

Long, E.J. (1957) 571020  
Sea Frontiers, 3:67-72  
Water from the sea

Popular description of the methods of  
obtaining fresh water from the sea.

HR:tl

MF



Long, J. (1957) 571021  
Sea Frontiers, 3(3):130-41  
Anglers versus spearmen

Describes the activities of spear fishermen and the controversy that has grown up between them and line fishermen.

FAO:glk

M

Loomis, W.F. (1957) 571024  
Science, 126:735-9.  
Sexual differentiation in Hydra

Quantitative study of the role of the partial pressure of CO<sub>2</sub> as external stimulant of sexual differentiation and discussion of known and possible instances of control of biological phenomena by pCO<sub>2</sub>.

FAO:glk

F

Longhurst, A.R. (1957) 571022  
Nature, Lond., 179:542-3  
Density of marine benthic communities off West Africa

Some quantitative data on the standing crop of benthos biomass in subtropical waters.

GLK:tl

M

López, J. (1957) 571025  
Invest.pesq., 6:83-109  
Peces jóvenes del litoral de Castellón (Young fish from the coast of Castellon)

The monthly distribution of young fishes of 31 species trawled off the coasts of Castellon (Western Mediterranean). Length, number and weight are connected with depth. The results are discussed with regard to present restrictions on fishing.

FAO:glk

M

Longuet-Higgins, M.S. (1957) 571023  
PhilTrans., 249A:321-87  
The statistical analysis of a random, moving surface

A mathematical model applicable to distribution of surface waves in open oceans.

:sjh

M

Lorenz, K.Z. (1957) 571026  
Pan Books Ltd., London, 221 p.  
King Solomon's ring - New light on animal ways

New edition of 1952 publication, which includes accounts of behaviour of fish and other aquatic organisms.

SJH:sjh

MF

Louisiana Wildlife and  
Fisheries Commission (1957)  
Louisiana Conserv., 9:16  
Water hyacinth control

571027

Progress report on the fight against the  
water hyacinth. Photographs showing  
equipment, and clogged and cleared areas.

FAO:wad

F

Lowenstein, O. (1957) 571030  
In "The Physiology of Fishes". Vol. II.  
Behaviour. Edited by M.E. Brown,  
Academic Press Inc., Publishers,  
New York, pp.155-86  
The sense organs. Part II. The acoustico-  
lateralis system

FAO

MF

Loveridge, A. (1957) 571028  
Bull.Mus.comp.Zool.Hary., 117(2):151-362  
Check list of the reptiles and amphibians  
of East Africa

Lowry, C.C. (1957) 571031  
Int.hydr.Rev., 34(2):9-14  
Installation d'un petit service hydro-  
graphique. Histoire du service des  
lèves hydrographiques de la Nouvelle  
Zelande (Establishment of a small  
hydrographic service. History of the  
New Zealand hydrographic survey service)

Account of arrangements for assembly of  
staff, equipment and sea-going  
facilities.

MF

FAO:glk

M

Lowe, R.H. (1957) 571029  
Rev.Zool.Bot.afr., 55  
Observations on the diagnosis and  
biology of Tilapia leucostica Trewavas  
(Pisces: Cichlidae) in East Africa

Lubianov, I.P. (1957) 571032  
Zool.Zh., 36(6):820-9  
Benthal fauna of the lower course of the  
Dnepr and of Kakhovka water reservoir  
in the first year of its existence

Discusses the peculiarities of the  
quantitative development and qualitative  
composition of the benthal fauna in the  
lower course of the Dnepr based on the  
data of investigations carried out in  
1952-55. The principal changes in the  
benthal fauna composition connected with  
the formation of Kakhovka water reservoir  
are briefly described.

M

FAO:glk

F

Lühmann, M. and H. Mann (1957) 571033  
Fischwirt., (7):169-71  
 Zur Blumenkohlkrankheit der aale  
 (On the "Cauliflower" disease of the  
 eel)

Short description of the disease and  
 its distribution in the Baltic and  
 North Sea.

FAO:tl

M

Lund, W.A. (1957) 571036  
Spec.sci.Rep.U.S.Fish Wildl.Serv.,  
 (216):24 p.  
 Morphometric study of the striped bass,  
Roccus saxatilis

Standard lenght, head length, predorsal  
 distance, prepelvic distance, body  
 depth, and caudal-peduncle depth were  
 the characters used. The data were  
 analyzed by appropriate F-tests in an  
 analysis of covariance. Standard  
 length was used as the independent  
 variable in all comparisons, and all  
 other characters were employed as  
 dependent variables.

GLK:glk

MF

Lüneburg, H. (1957) 571034  
Veröff.Inst.Meeresf., 5(1):63-92  
 Die Oberflächenbeschaffenheit bestimmter  
 Wattypen der Wesermündung (The  
 nature of the surface of certain types  
 of tidal flats in the Weser estuary)

Description of the methods used to  
 investigate tidal mud flats; morphological  
 description and the distribution of  
 grain size, organic matter, iron,  
 manganese and alkaline metals on the  
 tidal flats.

GLK:tl

MF

Lundblad, O. (1957) 571037  
Ark.Zool., 10(1-3):306 p.  
 Zur Kenntnis süd- und mitteleuropäischer  
 Hydrachnellen (On the knowledge of  
 hydrachnelles from South and Middle  
 Europe)

Taxonomic description.

FAO:tl

M

Lumby, J.R. (1957) 571035  
World Fish., May 1957  
 Charting the seas to help trawlermen

Popular description of the significance  
 and use of information on currents and  
 the physico-chemical qualities of  
 fishery waters.

SJH:tl

M

Lunel, M. (1957) 571038  
Int.hydr.Rev., 34(1):21-33  
 Utilisation des systèmes de radio-locat-  
 ion et du sondage ultra-sonore en  
 hydrographie (Utilization of systems  
 of radio-localization and ultra-sounding  
 for soundings in hydrography)

Enumerates and describes the radio-  
 electric system used in hydrography.

FAO:hr

M



<p>Lunz, G.R. (1957) 571039  <u>Contr.Bears Bluff Lab., (25):10 p.</u></p> <p>Notes on rock shrimp <u>Sicyonia brevirostris</u> (Stimpson) from exploratory trawling off the South Carolina coast</p> <p>Methods, taxonomy, weight and length, diurnal and seasonal availability, variations, spawning season.</p> <p>FAO:sjh M</p>	<p>MacLeod, R.A. and E. Onofrey (1957) 571042  <u>Canad.J.Microbiol., 3:753-9</u></p> <p>Nutrition and metabolism of marine bacteria. VI. Quantitative requirements for halides, magnesium, calcium, and iron</p> <p>A study of the specificity of some marine bacteria's requirement for halides, magnesium, calcium, and iron and of their quantitative requirements for these ions in the presence and absence of related ions.</p> <p>FAO:tl M</p>
<p>Macan, T.T. (1957) 571040  <u>Hydrobiologia, 9:1-12</u></p> <p>Notes on <u>Gammarus pulex</u> in the English Lake District</p> <p>Data on breeding season, fecundity, variations in numbers, distribution and predators.</p> <p>FAO:wad F</p>	<p>Macnae, W. (1957) 571043  <u>J.Ecol., 45:113-31</u></p> <p>The ecology of the plants and animals in the intertidal regions of the Zwartkops estuary near Port Elizabeth, South Africa. Part I</p> <p>General account under principal headings of topography and description of estuary, physical and chemical features (climate, salinity, temperature, substratum, turbidity, pollution), zonation of plants (incl. note on drifted algae).</p> <p>FAO:sjh MF</p>
<p>Macan, T.T. (1957) 571041  <u>Trans.Soc.Brit.Ent., 12(5):129-56</u></p> <p>The life histories and migrations of the Ephemeroptera in a stony stream</p> <p>Monthly collections were made over a period of three years from a stream in the Lake District, and the life histories of seven species studied. Of these, only <u>Ephemerella ignita</u> is a true summer species passing the rest of the year as dormant eggs; the remainder grow in autumn and spring. Variations in life histories from place to place are ultimately due to high summer temperatures and possibly oxygen deficiency.</p> <p>:jae F</p>	<p>Macnae, W. (1957) 571044  <u>J.Ecol., 45:361-87</u></p> <p>The ecology of plants and animals in the intertidal regions of the Zwartkops estuary, near Port Elizabeth, South Africa. Part II</p> <p>Continuation of 571043, under main headings: intertidal animal communities; nutritional relationships; biotic factors influencing distribution; commensalism; zonation on mud flats and sand banks.</p> <p>FAO:sjh MF</p>

Madsen, F.J. (1957) 571045  
Bull.Inst.franç.Afr.noire, A.Sci.nat.,  
19:474-81

On a new species of Meoma, and on a few  
other echinoids from tropical West  
Africa

Description of new sp. with remarks on  
Brissopsis lyrifera, Plagiobrissus  
costae, Cidaris cidaris nuda and  
Echinus acutus mediterraneus.

FAO:efa

M

Main, A.R. (1957) 571046  
Aust.J.Zool., 5(1):30-55

Studies in Australian amphibia. I. The  
genus Crinia Tschudi in South-Western  
Australia and some species from South-  
Eastern Australia

The western Australian representatives  
of the genus Crinia Tschudi are reviewed.  
Life history data are presented.

GLK:hr

F

Maine, Department of Sea and 571047  
Shore Fisheries (1957)  
Augusta, 43 p.  
Commercial fisheries of Maine

M

Mairs, E.H. (1957) 571048  
Sea Frontiers, 3:149-61  
Is the centerboard up?

Historical study of the centerboard,  
the apparent disappearance of center-  
board boats and their recent  
reappearance.

FAO:glk

M

Maksunov, V.A. (1957) 571049  
Zool.Zh., 36(2):238-44

Certain data on morphology and biology  
of Capoetobrama kuschakewitschi (Kessler)  
of the river Syr-Darya

Notes on life history of the species.

FAO:tl

F

Malacea, I. et al. (1957) 571050  
Bul.Inst.Cerc.piscic.Roman., 16(2):29-35  
Cercetari preliminare asupra degradarii  
apelor piscicole prin scurgeri reziduale  
de la topitoriile de in si cinepa  
(Preliminary studies on the degradation of  
fishing waters by residual flow from  
linen and hemp pits). Fr Ru

A study of the residual waters composition  
and their effect on the receiving rivers  
with recommendations for their purification.

FAO:hr

F

<p>Malmberg, G. (1957) 571051  <u>Skr.sverig.FiskFören, Årsskrift 1956,</u>  19-76  Om förekomsten av <u>Gyrodactylus</u> på svenska fiskar (On the occurrence of <u>Gyrodactylus</u> on Swedish fishes). En  Anatomy of the species, ecology, influence on the fish and description of species of <u>Gyrodactylus</u> occurring in Sweden.</p>	<p>Mandelbaum, H. (1957) 571054  <u>Trans.Amer.geophys.Un., 38:867-78</u>  Wind influence on a rotary tidal current  Results of investigations on the influence of prevailing wind direction on the rotation of tidal and residual current at Amrum Bank in the German Bight.</p>
<p>TL:tl F</p>	<p>TL:tl M</p>
<p>Mancuso, V. (1957) 571052  <u>Ric.sci., 27(10):3049-51</u>  La citocromo-ossidasi nell'uovo in sviluppo di <u>Sphaerechinus granularis</u> (Cytochrome-oxidase in the developing egg of <u>Sphaerechinus granularis</u>)  Cytochrome-oxidase distribution during the larval development of <u>Sphaerechinus</u> was followed by Nadi reaction.</p>	<p>Manning, J.A. (1957) 571055  <u>Quart.Rep.Fish.Res.Mar.Lab.Miami Univ., 57-4:12 p.</u>  Summary of investigations on the pelagic fish survey of Chilean waters with special reference to the swordfish, marlins and tunas.  A preliminary study of the migration, food, reproductive behaviour, and habitat preference of swordfish (<u>Xiphias gladius</u>) and marlins (<u>Makaira</u> sp.).</p>
<p>FAO:glk M</p>	<p>FAO:sjh M</p>
<p>Mandelbaum, H. (1957) 571053  <u>Trans.Amer.geophys.Un., 38(4):584-5</u>  Discussion of "Evidence for a critical wind velocity for air-sea boundary processes" and "Change in the relationship between wind and surface water movement at higher wind speeds"  Discussion of the original articles by Mandelbaum, H. (1956), <u>Trans.Amer.geophys Un., 37(6):685-90</u>, and by Lawford, A.L. et al. (1956), <u>Trans.Amer.geophys.Un., 37(6):691-3</u>. The results obtained with different methods for the relationship between wind velocity and surface water movement.</p>	<p>Manning, J.H. (1957) 571056  <u>Resour.Stud.Rep.Md, 11:1-25</u>  The Maryland soft-shell clam industry and its effects on tidewater resources  A report including basic information concerning the soft-shell clam (<u>Mya arenaria</u>), the industry it supports, the gear used in its exploitation, and the effects of that gear on tidewater resources.</p>
<p>GLK:tl M</p>	<p>FAO:sjh M</p>



Manwell, C. (1957) 571057  
Science, 126(3284):1175-6  
 Alkaline denaturation of hemoglobin of  
 postlarval and adult Scorpaenichthys  
marmoratus

Results of investigation undertaken to  
 find out whether an ontogenetic change  
 in the hemoglobin is associated with  
 the metamorphosis.

FAO:hr

M

Marcus, E. and E. Marcus (1957) 571060  
Résult.sci.Explor.hydrobiol.Kivu, Eduard  
and Albert, 3(2):27-52  
Tubellaria. En

F

Marchand, J.M. (1957) 571058  
Rep.Div.Fish.S.Afr., 1955-56, 159 p.  
 Twenty-seventh annual report for the  
 period 1st April, 1955 to 31st March,  
 1956

Reports industrial activities of the  
 Division with regard to inshore  
 (pilchard/maasbanker, rock lobster and  
 other) and deep-sea (trawling, whaling)  
 fisheries; administration of harbours,  
 legislation, aquarium, staff; research  
 especially on pilchard and maasbanker;  
 station lists of research vessels with  
 tabulated hydrographical and biological  
 data, with illustrative charts.

GLK:sjh

M

Margalef, R. (1957) 571061  
Invest.pesq., 8:89-95  
 Fitoplancton de las costas de Blanes  
 (Gerona) de agosto de 1952 a junio de  
 1956 (Phytoplankton off the coast  
 of Blanes (Gerona) from August 1952 to  
 June 1956)

Tabulation of the species taken and  
 discussion of the composition of the  
 plankton and the annual sequence of  
 populations.

FAO:glk

M

Marcotte, A. (1957) 571059  
Actualités mar., 1(2):6-12  
 Un peu de lumière sur le saumon de  
 l'Atlantique (On the Atlantic  
 salmon)

Discussion of some commercial catch  
 statistics and of some biological  
 information.

FAO:glk

MF

Margalef, R. (1957) 571062  
Invest.pesq., 6:39-52  
 Fitoplancton de las costas de Puerto  
 Rico (Phytoplankton of Puerto Rico  
 coasts)

Systematic list.

FAO:glk

M

<p>Margalef, R. (1957) 571063  <u>Invest.pesq.</u>, 7:117-25  Un modelo para el estudio de la distribución de organismos de gran dispersabilidad y área de reproducción muy localizada (A model for studying the distribution of organisms having wide dispersion but more localized area of reproduction)</p> <p>Simplified diffusion theory modified from that of Wolfenbarger's, D.O. (1946) giving, with constant instantaneous mortality rate, log-linear density-distance relation.</p> <p>FAO:sjh MF</p>	<p>Maritz, J.S. (1957) 571066  <u>Biometrics</u>, 13:433-41  A model for the deterioration in strength of materials due to fungal attack</p> <p>Derivation and properties of mathematical model, applicable to fouling, corrosion and gear preservation problems.</p> <p>SJH:sjh MF</p>
<p>Margalef, R. (1957) 571064  <u>Invest.pesq.</u>, 7:105-16  Nuevos aspectos del problema de la suspensión en los organismos planctónicos (New aspects of the suspension of planktonic organisms problem)</p> <p>Discussion of the nature and effect of the factors in Ostwald's formula:</p> $\text{sinking velocity} = \frac{\text{excess of weight}}{\text{viscosity of water} \times \text{form resistance}}$ <p>with particular reference to the role of electrical forces.</p> <p>FAO:glk MF</p>	<p>Marks, W. (1957) 571067  <u>Paper presented at the Thirty-Eighth Annual Meeting, Washington, D.C., April 29 - May 2, 1957</u>  The directional spectrum of a wind-generated sea, Part I. Method of observation and data reduction</p> <p>M</p>
<p>Margalef, R., F. Muñoz and J. Herrera (1957) 571065  <u>Invest.pesq.</u>, 7:3-31  Fitoplancton de las costas de Castellón de enero de 1955 a junio de 1956 (The Castellon coast marine phytoplankton from January 1955 to June 1956)</p> <p>Composition of the plankton, with systematic notes. Quantity of phytoplankton determined by colorimetric measurement of soluble pigments. Discussion of production in relation to ecological factors. The annual cycle and secondary spring maximum.</p> <p>FAO:glk M</p>	<p>Maroc. Service Central des Statistiques 571068  (1957)  Rabat, 36 p.  Bulletin mensuel de statistique No. 1 (Monthly statistics bulletin No. 1)</p> <p>Includes statistics of sea-fish landings by zones and months for May-Dec. 1956, and Feb.-April 1957.</p> <p>FAO:sjh M</p>

Maroc. Service Central  
des Statistiques 571069  
(1957)  
Rabat, 36 p.  
Bulletin mensuel de statistique No. 2  
(Monthly statistics bulletin No. 2)

Includes table of monthly fish landings,  
by areas, for August 1956-September 1957.

FAO:sjh

M

Marron, E.M. (1957) 571072  
New York. Random House, 214 p.  
Albacora; the search for the giant  
broadbill

M

Maroney, S.P., Jr., A.A. Barber 571070  
and K.M. Wilbur (1957)  
Biol.Bull., Wood's Hole, 112(1):92-6  
Studies on shell formation. VI. The  
effect of dinitrophenol on mantle  
respiration and shell deposition

Determination of respiration by Warburg  
method. Discussion of the mechanism of  
the action of DNP on shell deposition.

FAC:glk

MF

Marshall, S.M. and A.P. Orr (1957) 571073  
J.gen.Microbiol.(Symp.on plankton),  
16:273  
Some factors affecting the sinking rate  
of diatoms

Notes on experiments on the settling  
velocity of Calanus eggs in sea water  
containing different algal cultures.

FiB:tl

M

Marriott, J. (1957) 571071  
Sanitarian, Lond., 66:137-47  
River and sea pollution - a public health  
challenge

MF

Marshall, T.C. (1957) 571074  
Ichthyol.Notes, 1:117-37  
Ichthyological notes

A list of species of which 14 are new  
to Australia, 12 are new to Queensland  
and seven are of special interest.

FAO:glk

M

<p>Marteil, L. (1957) 571075  <u>Rev.Trav.Inst.Pêches marit.</u>, 21:377-400  <u>L'huitre portugaise en Bretagne</u>  (The Portuguese oyster in Brittany)</p> <p>Account of attempts at culture; reproduction considered in relation to environmental conditions and the availability of food; discussion of the origin of sets that have been observed in the Morhiban Basin.</p> <p>FAO:glk M</p>	<p>Martin, J. and 571078  M. Lefèvre (1957)  <u>Bull.franç.Piscic.</u>, 29:147-50  Destruction des algues envahissantes dans les étangs (Destruction of overgrown algae in ponds)</p> <p>Results of experiments to destroy <u>Spirogira</u> with copper sulphate.</p> <p>FAO:hr F</p>
<p>Marti, J.J. (1957) 571076  <u>Fish Ind., Moscow</u>, (11):87-8  (The tunny fishery in Norwegian waters).  <u>Ru</u></p> <p>FAO M</p>	<p>Martinell, H. (1957) 571079  <u>Svensk FiskTidskr.</u>, 66:73-5  Märkningar av 81 i Mörrumsån 8r 1955  (Tagging eels in the river Mörrum in 1955)</p> <p>Data on recapture and migration of transplanted eels.</p> <p>FAO:tl F</p>
<p>Martin, A.V.J. (1957) 571077  <u>Bull.Com.cent.Océanogr.</u>, 9(9):483-90  <u>Essai d'interprétation physique de la couche diffusante profonde (D.S.L.)</u>  (Attempts at physical interpretation of the deep scattering layer)</p> <p>A report of echo-sound observations on the D.S.L. with discussion of the effect of conditions near the surface and comparison of field observations with experimental results.</p> <p>FAO:glk M</p>	<p>Marumo, R. (1957) 571080  <u>Bull.Jap.Soc.sci.Fish.</u>, 23(4):187-90  On the distribution of plankton settling volumes in the neighbouring seas of Japan - I.</p> <p>Analysis and comparisons of samples obtained in 1954 in various areas of the western North Pacific.</p> <p>SJH:sjh M</p>



Marumo, R. (1957) 571081  
Bull.Jap.Soc.sci.Fish., 23(4):191-4  
 On the distribution of plankton  
 settling volumes in the neighbouring  
 seas of Japan - II.

Analysis and comparisons of samples  
 obtained in 1955 in various parts of  
 the Western North Pacific.

SJH:sjh

M

Marvin, K.T. (1957) 571082  
Limnol.Oceanogr., 2:371-4  
 A device for rapid conversion of  
 titration values to salinity

Construction of graphs for converting  
 titration units into salinity units  
 without the use of Knudsen tables.

HR:t1

M

Maryland. Board of Natural 571083  
 Resources (1957)  
Educ.Ser.Md Bd nat.Resour., (41):31 p.  
 Chesapeake biological laboratory

Ill. description of this State of  
 Maryland marine laboratory, and of its  
 staff and activities.

FAO:sjh

MF

Marzolf, R.C. (1957) 571084  
J.Wildlife Mgmt, 21(1):22-8  
 The reproduction of channel catfish in  
 Missouri ponds

Reports the results of a project to  
 determine the conditions necessary for  
 effective natural reproduction of  
 channel catfish in ponds, and to devise  
 methods to encourage this. Hatching  
 success and survival are reported.

FAO:glk

F

Massmann, W.H. (1957) 571085  
Copeia, (2):156-7  
 New and recent records for fishes in  
 Chesapeake Bay

A record of catches of the following  
 species: Carcharias taurus, Cetorhinus  
maximus, Galeocerdo cuvier, Gymnura  
altavela, Aetobatus narinari, Albula  
vulpes, Microgadus tomcod, Hoplostethus  
mediterraneus, Seriola zonata, S.  
falcata, S. fasciata, Coryphaena hippu-  
rus, Euthynnus alletteratus, Microgobius  
thalassinus, Evorthodus lyricus, Gobio-  
nellus boleosoma, Prionatus s. scitulus,  
P.t. tribulus, Hippoglossus hippoglossus,  
Remora australis.

HR:hr

M

Matsakis, J. (1957) 571086  
C.R.Acad.Sci., Paris, 244:1082-4  
 Etude par l'analyse factorielle des  
 dimensions du corps des mâles, des  
 femelles et des indifférenciés d'une  
 population d'Idotea viridis, isopode  
 valvifère (Factorial analysis of  
 body size of males, females and  
 undifferentiated individuals of a  
 population of Idotea viridis)

Content as per title.

FAO:efa

M

Matthews, D.C. (1957) 571087  
Pacif.Sci., 11(4):380-4  
Further evidences of anomuran non-  
pedunculate spermatophores

Compares the development of Aniculus  
maximus spermatophores with that of  
certain other Paguridae; records still  
other instances in which anomuran non-  
pedunculate spermatophores are produced.

FAO:glk

M

McAllister, R.F. (1957) 571090  
Trans.Amer.geophys.Un., 38(3)314-9  
Photography of submerged vertical  
structures

A device is illustrated and described  
with which photographs of the vertical  
walls of the La Jolla Submarine Canyon  
were obtained to a depth of 625 ft.  
A number of the photographs are  
reproduced and briefly described.

GLK:tl

M

Matthews, L.H. (1957) 571088  
Nature, Lond., 180:68  
Dr. J.E. Hamilton, I.S.O.

Obituary. Dr. Hamilton's work was  
particularly concerned with marine  
mammals and birds in the Falkland  
Islands.

GLK:sjh

M

McCarragher, D.B. (1957) 571091  
Progr.Fish Cult., 19:185-7  
The natural propagation of northern pike  
in small drainable ponds

Describes the fingerling production  
attained by stocking ripe Esox lucius.

WAD:wad

F

Mauny, R. (1957) 571089  
Notes afr., 75:73-8  
Buttes artificielles de coquillages de  
Joal-Fadioute (Artificial mounds of  
shells at Joal-Fadioute)

A study of the different species of  
shells found in mounds.

FAO:hr

M

McClane, A.J. (1957) 571092  
Field and Stream, 62(4):42-54  
Venezuela: sportsman's new frontier

MF

McConnell, W.J. et al. 571093  
Utah St.Dop.Fish Game, Idaho Dep.Fish  
Game, Wildl.Mgmt Dep.Utah St.agric.  
Coll., 76 p.

Bear lake; its fish and fishing

Reports investigations on the life history, creel census results, history of planting, methods of catching of cutthroat. Incl. notes on exploitation phase of the present population.

:efa

F

McLellan, H.J. (1957) 571096  
J.Fish.Res.Bd Canada, 14(2):213-39  
On the distinctness and origin of the slope water off the Scotian Shelf and its easterly flow south of the Grand Banks

In the slope water investigations a large little-known oceanic area has been studied in fair detail. A secondary current in the Gulf Stream system is described.

GLK:tl

M

McCracken, F.D. (1957) 571094  
Progr.Rep.Atl.Cst Sta., (67):6-13  
Results of cod tagging off eastern Nova Scotia

No. tagged in 1954; % returns; comparison of different types of tags; fish movement and growth.

FAO:sjh

M

McMichael, D.F. and 571097  
G.P. Whitley (1957)  
Aust.Zool., 12:211-50  
The published writings of Tom Iredale with an index of his new scientific names

A list of one hundred and seventy-five titles of scientific papers on molluscs, birds and other organisms and an index to the new generic, subgeneric, specific and subspecific names proposed in them.

FAO:hr

MF

McHugh, J.L. (1957) 571095  
Proc.Nat.Shellf.Ass., 46(1955):155-68  
Trapping oyster drills in Virginia. II. The time factor in relation to the catch per trap

Reports on results of experiments to determine the optimum trapping interval.

:hr

MF

McNulty, J.K. (1957) 571098  
Mar.Lab.Univ.Miami (mimeo), (57-8):1-25  
Progress report February 1957 - Pollution studies in Biscayne Bay during 1956 - Federal Security Agency Public Health Service National Institutes of Health - Under Grant RG-4062(C3)

Studies of the sediment of the bay.

FAO:tl

M



<p>Mehler, A.H. (1957) 571099  <u>Academic Press Inc., New York, 425 p.</u>  <u>Introduction to enzymology</u></p> <p style="text-align: right;">MF</p>	<p>Menon, M. Krishna (1957) 571102  <u>Indian J.Fish., 4(1):62-74</u>  <u>Contributions to the biology of penaeid</u>  <u>prawns of the south-west coast of</u>  <u>India</u></p> <p>For <u>Metapenaeus dobsoni</u> and <u>Parapenaeopsis stylifera</u> the ratios are calculated for each year class while for <u>Penaeus indicus</u> and <u>Metapenaeus affinis</u> they are calculated for arbitrary size ranges; disparity in the ratios in the age groups of the first two spp. are discussed in relation to migrations.</p> <p style="text-align: right;">GLK:glk M</p>
<p>Méndez Domingo, C. (1957) 571100  <u>Vie et Milieu, 8(1):92-8</u>  <u>Sur l'existence du Colpomenia peregrina</u>  <u>(Sauv.) Hamel dans la Méditerranée</u>  <u>(The existence of Colpomenia peregrina</u>  <u>(Sauv.) Hamel in the Mediterranean)</u></p> <p>Distribution of the species which is compared with <u>C. sinuosa</u>.</p> <p style="text-align: right;">FAO:hr M</p>	<p>Menzel, H.M. (1957) 571103  <u>Dtsch.FischZtg., (2):43-4</u>  <u>Zu den Gesundheitskontrollen an</u>  <u>Satzfischen (Sanitary controls of</u>  <u>brood fishes)</u></p> <p>Notes on control measures in German Democratic Republic.</p> <p style="text-align: right;">FAO:efa MF</p>
<p>Menezes, R.S. (1957) 571101  <u>Agric.Pec., 400:50</u>  <u>Atum - nova riqueza dos mares brasi-</u>  <u>leiros (Tuna - new wealth of the</u>  <u>Brazilian seas)</u></p> <p>Information and comments on the tuna fisheries studies carried out by the Japanese research vessel TOKO MARU, 1955-56, in Brazilian waters. Use and food value of the Brazilian tuna. Efforts of the Division of Fish and Game to develop the fisheries in Brazil.</p> <p style="text-align: right;">FAO:hr M</p>	<p>Menzies, R.J. (1957) 571104  <u>Bull.Mar.Sci.Gulf Caribb., 7(2):101-200</u>  <u>The marine boror family Limnoriidae</u>  <u>(Crustacea, Isopoda). Part I: Northern</u>  <u>and Central America: systematics,</u>  <u>distribution and ecology</u></p> <p>Systematic review with notes on geographic distribution and ecology.</p> <p style="text-align: right;">FAO:glk M</p>



<p>Menzies, W.J.M. and W.M. Shearer (1957)  <u>Nature, Lond.</u>, 179:790  Long-distance migration of salmon</p> <p>Salmon marked in Scotland recovered in Greenland.</p>	571105	<p>Meuwus, A.L. and M.J. Heuts (1957)  <u>Biol.Bull., Wood's Hole</u>, 112(1):97-107  Temperature dependence of breathing rate in carp</p> <p>An examination of the influence of age and size on the frequencies of respiratory movements as first contribution to evolving an easy method of detecting genetically based physiological variants.</p>	571108
FAO:jae	MF	FAO:glk	F
<p>Merkel, T.J. (1957)  <u>Calif.Fish Game</u>, 43:249-70  Food habits of the king salmon, <u>Oncorhynchus tshawytscha</u> (Walbaum), in the vicinity of San Francisco, California</p> <p>Qualitative and quantitative analysis of stomach contents of 1004 troll-caught fish, Oct. 1954 - Oct. 1955; food as related to season, fish-size and sexual condition. Significance of rockfishes, euphausiids, Pacific herring, squid and the crab <u>Megalops</u> in the diet.</p>	571106	<p>Midttun, L. and J. Natvig (1957)  <u>Sci.Res."Bratoggs" Exped.</u>, (3)  Pacific Antarctic waters</p>	571109
SJH:sjh	M		M
<p>Messick, S. (1957)  <u>Science</u>, 126:266  Non-parametric statistics for the behavioral sciences</p> <p>Review of book with same title by Siegel, S. (1956).</p>	571107	<p>Migdalski, E.C. (1957)  <u>Copeia</u>, (1):54-6  Contribution to the life history of the South American fish <u>Arapaima gigas</u></p> <p>A note on distribution, fisheries, biology, and bionomics of <u>Arapaima gigas</u>.</p>	571110
FAO:	MF	HR:hr	F

Migita, M. and K. Kanna (1957) 571111  
Bull.Jap.Soc.sci.Fish., 23(4):215-21  
 On the source of shell-fish poison at the lake Hamana, I. Attempts at experimentally rendering shell-fish toxic

Field and tank experiments on uptake of toxic substances, including venerupin, by oysters and short-neck clams.

SJH:sjh

MF

Miller, A.R. (1957) 571114  
Paper presented at the Thirty-Eighth Annual Meeting, Washington, D.C., April 29 - May 2, 1957

Report on the effect of winds on coastal water levels of New England

M

Millbank, J.W. (1957) 571112  
Ann.Bot., Lond., 21:23-31  
 Keto-acids in the alga Chlorella

Account of investigations on the intracellular concentration of pyruvic and  $\alpha$ -ketoglutaric acids in sp. grown under various conditions and discussions of possible interpretation of these facts.

FAO:efa

F

Miller, I.A. (1957) 571115  
Int.hydr.Rev., 34(2):19-29

Le Decca à mesure de deux distances installé sur le navire hydrographe KAPUSKASING (Canada) - Saison 1956 (Decca for measurement of two distances installed on the hydrographic vessel KAPUSKASING (Canada) - 1956 season)

Account of the equipment and of measures to test its performance, technique of construction of graph, recommendations for improvement of the equipment.

FAO:glk

M

Millbank, J.W. (1957) 571113  
J.exp.Bot., 8:96-104  
 Preparation of a respiratory cell-free extract of the alga Chlorella

Miller, R.R. (1957) 571116  
System.Zool., 6(1):29-40

Utilization of X-rays as a tool in systematic zoology

Discusses briefly different types of radiation, pointing out the value and limitations of the techniques, and presents data from experiments with different types of X-ray machines.

F

HR:hr

MF

Millot, N. and 571117  
M. Yoshida (1957)  
Nature Lond., 179(4566):924  
Spectral sensitivity of an echinoid

Investigations of spectral sensitivity  
and minimal light-energy required to  
elicit spino movement. (The  
sensitivity, was found maximal in blue  
light - at 465 m $\mu$ )

GLK:tl

M

Mills, D. (1957) 571118  
Sea Frontiers, 3:109-12  
Unexploited waters

Brief account of exploration off Sierra  
Leone.

HR:sjh

II

Milne, D.J. (1957) 571119  
Bull.Fish.Res.Bd Can., (113):56 p.  
Recent British Columbia spring and coho  
salmon tagging experiments, and a  
comparison with those conducted from  
1925 to 1930

Analysis of results from taggings of  
many thousands of fish from 1949-52 and  
1925-30, showing migrations and origins,  
% recaptures in relation to fishing  
industry. Proposals for conservation  
measures.

GLK:sjh

MF

Mil'shtein, V. (1957) 571120  
Sci.and Life, Moscow, 24:54  
Brooding of sturgeon

Mimura, K. (1957) 571121  
Rep.Nankai reg.Fish.Res.Lab., 6:77-83  
(Length frequency of big-eye tuna,  
caught from the Indo-Australian  
Archipelago area). Ni En

Monthly catches in different parts of  
the area, and significance of  
dispersion and number of modes in the  
frequency distribution, in relation to  
ecological area differences.

FAO:sjh

M

Mimura, K. (1957) 571122  
Rep.Nankai reg.Fish.Res.Lab., 5:138-44  
(Studies on the albacore. IV. Fishing  
condition in the Indian Ocean,  
especially the size composition in the  
eastern seas of the Ocean). Ni En

Hook-rates and size-compositions of  
landed catches east of 80°E, 1952-1955,  
analysed for regional differences and  
relation to currents.

FAO:sjh

M

Minnesota University. Center 571123  
for Continuation Study (1957)  
Minneapolis, 1 vol.  
Managing our fish and wildlife resources

MF

Mišik, V. (1957) 571126  
Biología, 4:177-90  
Biometrika plotice lesklej dunajskej  
Rutilus pigus (Lacépède 1804) virgo  
(Heckel 1852) (Biometrics of the  
R. pigus in the Danube)

F

Mirashi, M.V. (1957) 571124  
Proc. Indian Acad. Sci., Sec. B, 45:95-100,  
181-5  
Contribution to our knowledge of the  
physiological anatomy of some Indian  
Hydrophytes. 5. Stem of Lindernia allioni.  
6. Stem of Lobelia alsinoides Lam

M

Miskin, E.A. and 571127  
P.H. Kemp (1957)  
Dock Harb. Author., 37:335-7  
Wave measurements by stereo-photogram-  
metric methods

M

Mironova, N.V. (1957) 571125  
Vop. Ikhtiol., 8:155-9  
K voprosu o biologii i promysle saidy  
(Pollachius virens L.) v Barentsevom  
more (Questions concerning the  
biology and industry for the said  
(Pollachius virens L.) in the Barents  
Sea)

Seasonal distribution maps.

FAO:glk

LI

Mistakidis, M.N. (1957) 571128  
Fish. Invest., Lond., Ser. 2, 21(4):52 p.  
The biology of Pandalus montagui Leach

A detailed account, under the following  
headings: introduction and review of  
literature; description of fishery in  
the Thames Estuary; breeding; sex  
change; growth; food; migrations;  
parasites.

FAO:sjh

ITF



Mita, N. (1957) 571129  
Rep.Nankai reg.Fish.Res.Lab., 5:19-37  
 (On the estimation of carangoid fishes).  
 Ni En

Estimates from scale readings and by Peterson's method of Bertalanffy growth coefficients for 9 spp. of Seriola, Trachurus, Caranx and Decapterus.  
 Gives some age compositions.

FAO:sjh

M

Moiseev, P.A. (1957) 571132  
C.R.Acad.Sci.U.R.S.S., 112:63  
Obrazovanie zhiloi formy simy Oncorhynchus masu morpha formosanus (Jordan et Oshima) v basseine reki Sedanki  
 (The formation of the living form of Oncorhynchus masu morpha formosanus (Jordan et Oshima) in the basin of the Sedanka river)

FAO

F

Mitani, F. (1957) 571130  
Bull.Jap.Soc.sci.Fish., 22:605-8  
 (Correlation between catches of fishing grounds and secular variation in the catch of the yellow-tail, Seriola quinqueradiata, along the Pacific coast of Japan). Ni En

Analysis of catch data from 1915 to 1954; distinguishes three areas according to kind of variation; correlation between catches in different prefectures; relation of variations to hydrographic and meteorological factors.

SJH:sjh

M

Molander, A.R. and 571133  
 M. Molander Swedmark (1957)  
Rep.Inst.mar.Res.Lysekil(Ser.Biol.), (7):44 p.  
 Experimental investigations on variation in plaice (Pleuronectes platessa Linné)  
 Examination of the role of temperature as determinant of (1) the variation in the number of vertebrae and fin rays (2) abnormalities in the vertebral column, (3) growth, (4) mortality, and comparison of these results with the features presented by natural populations.

FAO:glk

M

Miyaguchi, K. and 571131  
 T. Ishida (1957)  
Bull.Hokkaido reg.Fish.Res.Lab., (16): 49-55  
 (On the observation of scale pattern of pink salmon). Ni En

Counts of circuli in resting zones of scales of Oncorhynchus keta Walbaum in Japan and Okhotsk Seas and N.W. Pacific permit differentiation of stocks.

FAO:sjh

MF

Molinier, R. and 571134  
 J. Picard (1957)  
Bull.sta.Aquic.Pêche Castiglione, (8):251-68  
 Aperçu bionomique sur les peuplements marins littoraux des côtes rocheuses méditerranéennes de l'Espagne  
 (Bionomic survey of the coastal stocks of the rocky Mediterranean coasts of Spain)  
 A study of the distribution of organisms on different types of coast.

FAO:hr

M

Monroy, A. (1957) 571135  
Experientia, 13:398  
Swelling properties of the mitochondria  
of unfertilized and newly fertilized  
sea urchin eggs

Investigation of changes in the physiolog-  
ical, and hence structural, conditions  
of the mitochondrial membrane  
accompanying changes in some mitochondrial  
enzymes taking place in conjunction  
with fertilization.

FAO:glk

M

Moore, G.H. and 571138  
A.D.K. Laird (1957)  
Trans.Amer.geophys.Un., 38(5):681-7  
Direct shear stresses and air velocity  
profiles on a mechanical wave boundary

Shear stresses of air on a rubber-sheet  
mechanical model of standing waves,  
stationary waves, and flat surface  
were measured directly and calculated  
from velocity profiles.

FAO:tl

M

Montreuil, P.L.J. 571136  
and K. Ronald (1957)  
Canad.J.Res.(Zool.), 35(3):495  
A preliminary note on the nematode  
parasites of seals in the gulf of the  
St. Lawrence

Three species of gray seals, Halichoerus  
grypus, Phoca groenlandica and P. vitu-  
lina are noted as carrying nematodes  
in their intestines.

FAO:hr

M

Morita, R.Y. and 571139  
R.A. Howe (1957)  
Deep-Sea Res., 4(4):254-8  
Phosphatase activity by marine bacteria  
under hydrostatic pressure

p-nitrophenyl phosphate was employed to  
determine phosphatase activity of  
marine bacteria under hydrostatic  
pressure. A wide variation in  
phosphatase activity was shown to occur.

GLK:tl

M

Moore, G.A. (1957) 571137  
In "Vertebrates of the United States"  
by W.F. Blair et al. McGraw-Hill Book  
Company, Inc., pp. 31-210  
2. Fishes

FAO

F

Morrison, J.F., D.E. Griffiths 571140  
and A.H. Ennor (1957)  
Biochem.J., 65:143-53  
Purification and properties of arginine  
phosphokinase

FAO

M

Morton, J.E. (1957) 571141  
Nature, Lond., 180(4577):130-1  
Mosaic evolution in hydroids

Brief review of systematic arrangement  
of Hydroida with notes on Rees's  
classification.

GLK:efa

MF

Mowbray, L.S. (1957) 571144  
Paper presented at the Inter-Island  
Marine Biological Conference, March  
31 - April 6, 1957

Some notes on the known routes of  
migration of the bluefin tuna Thunnus  
thynnus

Paths and times of migrations and  
relations with current strength, feeding  
and spawning.

Abstract in "Report by the Institute of  
Marine Biology, University of Puerto  
Rico".

HR:glk

M

Moski, H.C. (1957) 571142  
Copeia, (1):50-1  
Algal occurrence on the turtle  
Clemmys guttata

Reports records and states that sp. can  
now be added to the list of N. American  
fresh-water turtles epizoized in the  
natural state.

HR:efa

F

Mraz, D. and E.L. Cooper (1957) 571145  
J.Wildlife Mgmt, 21(1):66-9  
Natural reproduction and survival of  
carp in small ponds

These experiments were designed to test  
the idea that population density of  
adult carp is an important factor in the  
success of natural reproduction of this  
species.

FAO:glk

F

Motais, R. (1957) 571143  
Bull.Inst.oceanogr.Monaco, (1094):1-4  
Sur l'absorption de la lumière par le  
cristalline de quelques poissons de  
grande profondeur (On the absorption  
of light by the crystalline of some  
fishes at great depths)

Gives the results of the experiments  
conducted with 3 species of selachii,  
4 teleostei and one apode.

FAO:hr

M

Mraz, D. and E.L. Cooper (1957) 571146  
J.Wildlife Mgmt, 21:127-33  
Reproduction of carp, largemouth bass,  
bluegills, and black crappies in small  
rearing ponds

Experiments with Cyprinus carpio,  
Micropterus salmoides, Lepomis macro-  
chirus and Pomoxis nigromaculatus using  
mixed populations of adult fish at known  
densities to determine success of natural  
reproduction and early survival.

FAO:wad

F



<p>Mucibabic, S. (1957) 571147  <u>J.gen.Microbiol.</u>  Some aspects of the growth of single and mixed populations of Flagellates and Ciliates</p> <p style="text-align: right;">MF</p>	<p>Munk, W.H. and 571150  F.E. Snodgrass (1957)  <u>Paper presented at the Thirty-Eighth Annual Meeting, Washington, D.C., April 29 - May 2, 1957</u>  Some recent results in the study of ocean waves in the band of 1 to 100 cycles per kilosecond</p> <p style="text-align: right;">M</p>
<p>Munk, W.H. and 571148  F.E. Snodgrass (1957)  <u>Deep-Sea Res.</u>, 4(4):272-86  Measurements of southern swell at Guadalupe Island</p> <p>Some energy spectra of pressure fluctuations on the sea bottom at a depth of 60 fathoms off Guadalupe Island, Mexico are analysed. The pressure fluctuations caused by swell are attributed to cyclones in the storm belt of the Southern hemisphere.</p> <p style="text-align: right;">M</p> <p>GLK:tl</p>	<p>Munro, H. Fox (1957) 571151  <u>Nature, Lond.</u>, 179:148  Haemoglobin in the Crustacea</p> <p>A review of its presence throughout the class - both in blood plasma and various tissues.</p> <p style="text-align: right;">MF</p> <p>GLK:wad</p>
<p>Munk W.H. and 571149  F.E. Snodgrass (1957)  <u>Science</u>, 125 (3251):749  Ocean waves of very low frequency</p> <p>Short note on very low frequency waves believed to originate from far distant storms.</p> <p style="text-align: right;">M</p> <p>FAO:tl</p>	<p>Munro, I.S. (1957) 571152  <u>Ichthyol.Notes</u>, 1:145-8  Occurrence of the big-eyed tuna, <u>Parathunnus mebachi</u> (Kishinouye) in Queensland</p> <p>A record of the first specimen of the species obtained in Australian waters, encompassing the description of the specimen and discussion of the taxonomic position.</p> <p style="text-align: right;">M</p> <p>GLK:hr</p>

Munro, I.S.R. (1957) 571153  
Fish.News Lett.Aust., 16(8):15-8  
Handbook of Australian fishes

Section 14, pages 57 to 60 of this taxonomic handbook being published in serial form.

GLK:sjh

M

Munroe, E. (1957) 571156  
Science, 126:437-9  
Comparison of closely related faunas

Short discussion of general nature of differences between faunas and discusses a method useful for comparison and assessment of differences. Particular reference to rate of differentiation fish in large tropical lakes and temperate rivers.

FAO:glk

F

Munro, I.S.R. (1957) 571154  
Mon.Ser.Bull.W.Aust., 6(5):88-90  
The Australian species of Scomberomorus lacepede

An illustrated key for the distinction of the species of Scomberomorus of Australia: S. (Cybium) commerson, S. (Cybium) queenslandicus, S. (Sawara) nipponius and S. (Indocybium) semi-fasciatus.

GLK:hr

M

Muraour, P. (1957) 571157  
Bull.sta.Aquic.Pêche Castiglione, (8):29-38

Sédiments et sédimentation au large de la région située entre le Cap Tedlès et la Pointe de l'Aït-Raouna (Est de Tighzirt) (Sediments and sedimentation off the region between Cape Tedlès and the Point of l'Aït-Raouna (East of Tighzirt))

Lists the organisms of the samples taken and chemical composition of the same.

FAO:hr

M

Munro, W.R. (1957) 571155  
Freshw.Salm.Fish.Res., 16:16 p.  
The pike of Loch Choin

Information on the biology of Esox lucius L. (length-weight, relationship, age, growth, maturity and food habits) and standing crop in a Scottish loch devoid of other fishes except Anguilla.

FAO:wad

F

Murómtsev, A.M. (1957) 571158  
C.R.Acad.Sci.U.R.S.S., 116:776-9  
Tipy godovogo khoda temperatury vody v poverkhnostnom sloe okeana (Patterns of annual temperature in surface layers of the ocean)

Description and analysis of factors, which influence the temperature of water: radiation balance of the area and vertical advection.

FAO:go

M

Murray, R.W. (1957) 571159  
Nature, Lond., 179:106-7  
Evidence for a mechanoreceptive function  
of the ampullae of Lorenzini

An investigation of the possibility of  
mechanical sensitivity in the ampullary  
system of Raia clavata using an  
electrical recording technique.

GLK:hr

M

Musacchia, X.J., B.J. Sullivan 571162  
and C.G. Wilber (1957)  
Copeia, (1):10-2  
A comparison of liver and muscle lipids  
in arctic fishes

Estimations of tissue fatty acids,  
cholesterol and phospho-lipid in  
Mallotus catervarius, Dallia pectoralis,  
Boregadus saida and Myoxocephalus quadri-  
cornis freshwater and marine species  
from Alaska.

HR:hr

MF

Murty, C.B. (1957) 571160  
Curr.Sci., 26(3):80  
Water masses of the Western Central Bay  
of Bengal during November

Presentation of T.S. diagram and the  
nomenclature of water masses.

Mužinić, R. (1957) 571163  
Bilješke, Split, (12):4 p.  
Sur la croissance de la jeune sardine  
(Sardina pilchardus Walb.) dans les  
eaux de Split (Growth of the young  
sardine (Sardina pilchardus Walb.)  
in the waters of Split)

Sardines of first spawnings, during the  
first growth phase, are 6 to 15 cm long.  
Specimens from late spawnings grow  
during the second phase slower than the  
specimens of first spawnings.

FAO:tl

MF

GLK:hr

M

Musacchia, X.J. and 571161  
M.C. Clark (1957)  
Physiol.Zool., 30(1):12-7  
Effects of elevated temperatures on  
tissue chemistry of the arctic sculpin  
Myoxocephalus quadricornis

A study was made of the effect of  
elevated temperatures on the total fatty  
acids, total cholesterol, cholesterol  
esters, and phospholipid of the liver and  
skeletal muscle from the sculpin,  
Myoxocephalus quadricornis, an arctic  
fish.

Nafe, J.E. and 571164  
C.L. Drake (1957)  
Paper presented at the Thirty-Eighth  
Annual Meeting, Washington, D.C.,  
April 29 - May 2, 1957  
A comparison of deep and shallow water  
marine sediments

FAO:sjk

MF

M



Nakamura, N. and 571165  
 S. Kasahara (1957)  
Bull.Jap.Soc.sci.Fish., 22:674-8  
 (A study on the phenomenon of the Tobikoy or shoot carp. III. On the result of culturing the modal group and the growth of carp fry reared individually).  
 Ni En

Experiments on selection of Cyprinus carpio for growth characteristics demonstrate effect of food competition on growth variation.

SJH:sjh

F

Naranjo Betancourt, A. (1957) 571168  
Banco Nacional de Fomento, División Técnica Tegucigalpa, D.C., Honduras, C.A., 136 p.  
 Investigación y estudio de puertos pesqueros de Honduras, costa norte y costa sur (Investigation and study of the fishing ports of the northern and southern coasts of Honduras)

A study of the present fishing activities of Honduras with recommendations for its future development.

FiB:hr

M

Nakano, E. and A. Monroy (1957) 571166  
Experientia, 13:416-7  
 A method for the incorporation of radioactive isotopes in the sea urchin egg

Description of the method, which avoids long incubation, involving injection of the isotope into the body cavity of the adult female.

FAO:glk

M

Naumov, D.V. (1957) 571169  
C.R.Acad.Sci.U.R.S.S., 112:65  
Zhizennyi tsikl gidromeduzy Cladonema pacifica Naumov (The life cycle of the hydromedusa Cladonema pacifica Naumov)

FAO

M

Nakatsu, L.M. (1957) 571167  
Comm.Fish.Rev., 19(12):5-8  
 A review of the soupfin shark fishery of the Pacific coast

Distribution, biology, landings and utilization of Galeorhinus zyopterus from south California to north British Columbia.

FAO:sjh

M

Navarro Dagnino, J. (1957) 571170  
Barcelona, Gill, 151 p.  
Vocabulario marítimo inglés-español y español-inglés (Maritime dictionary English-Spanish and Spanish-English)

M



Naylor, E. (1957) 571171  
Nature, Lond., 180:616-7  
Introduction of a grapsoid crab,  
Brachynotus sexdentatus (Risso), into  
British waters

Report of observations of the presence of  
this crab, the conditions under which  
it is living, and discussion of the ways  
in which it might have been introduced  
from the Mediterranean.

GLK:rlk

M

Naylor, E. (1957) 571172  
New Sci., 2(50):21-3  
Immigrant marine animals in Great  
Britain

Illustrated account of immigration from  
America, Australia and Asia of Velolla,  
Elminius and Lepas (barnacles), Planes,  
Brachynotus and Pachygrapsus (crabs),  
Mercierella (tube-worm), Gryphaca (oyster)  
and spp. of other genera.

FAO:sjh

M

Needham, A.E. (1957) 571174  
Nature, Lond., 180:1293  
The quadratic relation in differential  
growth

Discussion of application of polynomial  
rather than logarithmic equation to  
continuously varying allometric growth  
in carapace width and abdominal width  
of female pea crab, Pinnotheres pisum.

GLK:sjh

M

Neill, W.T. (1957) 571175  
Copeia, (1):43-7  
Distributional notes on Georgia  
amphibians, and some corrections

Content as per title with comments  
on herpetogeographic errors and  
omissions.

HR:efa

F

Naylor, M. (1957) 571173  
Nature, Lond., 180:46  
An acetocarmine squash technique for the  
fucals

Describes new cytological technique,  
applied to Fucus, Cystoseira, Himanthalia  
and Halidrys.

GLK:sjh

M

Nemoto, C.M. (1957) 571176  
Progr.Fish Cult., 19:147-57  
Experiments with methods for air  
transport of live fish

Describes experiments, mainly with  
Lepomis macrochirus and Tilapia mossam-  
bica, to provide adequate oxygen supply  
and to control the accumulation of  
metabolic wastes during transport by  
plane. Specific recommendations are made  
involving the use of oxygen in sealed  
containers, an adsorptive agent and  
sodium amytal.

WAD:wad

F

Nepgen, C.S. de V. (1957) 571177  
Invest.Rep.Div.Fish.S.Afr., (28):30 p.  
 The South African pilchard (Sardinops  
ocellata and the maasbanker (Trachurus  
trachurus) - The euphausiids of the  
 west coast of South Africa

Discussion of methods used, followed by  
 a discussion of the general occurrence,  
 seasonal variations and distribution.  
 After brief notes on each of the species  
 found, the general occurrence of  
 euphausiids is correlated with certain  
 hydrological factors such as temperature  
 and salinity.

FAO:hr

M

Netherlands. Royal 571180  
 Meteorological Institute (1957)  
Gravenhage, 91 p.  
 The Mediterranean oceanographic and  
 meteorological data. En Ne

Marine climatological atlas containing  
 monthly charts on general currents and  
 air circulation, pressure, air and  
 sea surface temperature, fog and  
 precipitation and current and wind  
 roses.

FAO:tl

M

Netherlands. Landbouw- 571178  
 Economisch Instituut.  
 Afdeling Visserij (1957)  
Rapp.Landbouw-Econ.Inst., (270):53 p.  
 Diagnose-rapport visserij 1956.  
 Voorlopige berekening van de  
 bedrijfsresultaten van de visserij  
 over 1956 (Diagnostic report on  
 fisheries - 1956. Provisional  
 calculation on the trading results in  
 fisheries for 1956)

MF

Neumann, G. (1957) 571181  
Port Engr., 6(2):18-23  
 Generation and growth of ocean waves  
 under wind action

M

Netherlands. Landbouw- 571179  
 Economisch Instituut.  
 Afdeling Visserij (1957)  
Rapp.Landbouw-Econ.Inst., 257:93 p.  
 Onderzoek naar de bedrijfsresultaten  
 van de garnalenvisserij in 1954 en 1955  
 (Investigation on the commercial results  
 of the shrimp fishery in 1954 and 1955)

M

Newcombe, C.L. (1957) 571182  
Bull.ecol.Soc.Amer., 38:100.  
 The potential use of meromictic lakes  
 for disposal of radioactive wastes

Abstract of paper presented at the  
 meeting of the Ecological Society of  
 America, Indianapolis, December 27-29,  
 1957.

GLK:glk

F

<p>Newell, A.E. (1957) 571183  <u>Progr.Fish.Cult.</u>, 19(2):76-80  Two-year study of movements of stocked brook trout and rainbow trout in a mountain trout stream</p> <p>Experiments with <u>Salvelinus fontinalis</u> and <u>Salmo gairdneri</u> in a New Hampshire, USA, stream.</p>		<p>Nicolet, M. (1957) 571186  <u>Nature, Lond.</u>, 180:7-10  The International Geophysical Year</p> <p>Lists oceanographic and other stations, by regions.</p>	
WAD:wad	F	GLK:sjh	M
<p>New Zealand. Marine 571184  Department (1957)  <u>Rep.Fish.N.Z.</u>, 1956, 40 p.  Report on fisheries for 1956</p> <p>Statement of weight and value of catch taken, its species composition and origin by port of landing; craft engaged, and methods of capture. Notes on exports and imports, fish-liver oil, and particular fisheries. Account of freshwater fishery activities and of freshwater and marine research. Detailed statistical tables.</p>		<p>Niculescu-Duvaz, M. 571187  and Gh. Barca (1957)  <u>Bul.Inst.Cerc.piscic.Roman.</u>, 16(2):21-8  Orientarea problemelor de economie piscicola in scopul ameliorarii agro-piscicole a regiunii inundabile a Dunarii (Orientation of problems of the economy of fisheries in consequence of the amelioration of agriculture and fishculture in the flood plain of the Danube). Ru Fr</p> <p>Discussion, with proposed land-use map.</p>	
FiB:glk	MF	FAO:sjh	F
<p>Nicolai, E. (1957) 571185  <u>Nature, Lond.</u>, 180:491-3  Wall deposition in <u>Chaetomorpha mela-gonium</u> (Cladophorales)</p> <p>Gives data obtained about the first wall laid down and the stage of development at which cross-striation pattern makes its appearance.</p>		<p>Nielson, R.S., N. Reimers 571188  and H.D. Kennedy (1957)  <u>Calif.Fish.Game</u>, 43(1):5-42  A six-year study of the survival and vitality of hatchery-reared rainbow trout of catchable size in Convict Creek, California</p> <p>Describes controlled year long experiments using hatchery <u>Salmo gairdneri</u> and wild <u>Salmo trutta</u>.</p>	
GLK:efa	F	HR:wad	F



Nikolskii, P.D. (1957) 571189  
Fish.Ind., Moscow, 33(1):70-1  
 Opyt dvukhkratnogo ispol'zovaniia prudov  
 za odin vegetatsionnyi period (Test  
 concerned with using ponds twice during  
 one vegetative period)

Nishibori, K. (1957) 571192  
Bull.Jap.Soc.sci.Fish., 22:713-4  
 (Studies on pigments of marine animals.  
 IV. Astacene from the liver oil of  
 cuttle-fish, Ommastrephes sloani  
pacificus Streentrup). Ni En

Reports a biochemical and spectrographic  
 analysis.

FAO

F

SJH:sjh

M

Nikonorov, I.V. (1957) 571190  
Fish.Ind., Moscow, 33(2):79-81  
 Vidoboi i razmernyi sostav ulovov kil'ki  
 rybonasosom i konusnoi set'in  
 (Species and size composition of  
 northern pilchard catch with a fish  
 pump and a conic net)

Nishibori, K. (1957) 571193  
Bull.Jap.Soc.sci.Fish., 22:715-7  
 (Studies on pigments of marine animals.  
 V. Carotenoids from the red muscle and  
 the viscera of giant shield shell,  
Tugali gigas). Ni En

Reports a biochemical and spectrographic  
 analysis.

FAO

M

SJH:sjh

M

Nishibori, K. (1957) 571191  
Bull.Jap.Soc.sci.Fish., 22:708-12  
 (Studies on pigments of marine animals.  
 III. Echinochrome A from the spines of  
 sand-dollar Echinarachnius mirabilis).  
Ni En

Reports a biochemical and spectrographic  
 analysis.

Noble, E.R. (1957) 571194  
J.Mar.biol.Ass.U.K., 36(1):143-55  
 Seasonal variations in host-parasite  
 relations between fish and their  
 protozoa

A study of host-parasite relations  
 between three species of marine fish and  
 their protozoa was made at Plymouth.  
Callionymus lyra was more heavily  
 infected with protozoa than were the  
 other two species of fish. Gadus  
merlangus was less heavily parasitized.  
G. merlangus, however, was more heavily  
 parasitized with worms than were the  
 other two fish. In Microstomus kitt the  
 intensity of infection was generally low.  
 HR:hr M

SJH:sjh

M



<p>Hógrádi, T. (1957) 571195  <u>Hydrobiology</u>, 9(4):348-60          Beiträge zur Limnologie und Rädertier-          fauna ungarischer Natrongewässer          (Contributions to limnology and rotifer          fauna of Hungarian "Sodium-waters")</p> <p>Limnological description of the water          containing high amounts of sodium          carbonate, list of the zooplankton          organisms and description of several          n. sp. and n.f. of rotifers found in          these waters.</p> <p>FAO:tl F</p>	<p>Northcote, T.G. (1957) 57119  <u>Management Publ.Br.Col.Game Comm.</u>, 6:1.          Common diseases and parasites of fresh          water fishes in British Columbia</p> <p>Includes a key to their identification          and also contains an account of          miscellaneous abnormalities.</p> <p>WAD:wad F</p>
<p>Nordli, E. (1957) 571196  <u>Nytt Mag.Bot.</u>, 5:13-6          Algal flour extract as a stimulating          agent for marine dinoflagellate cultures</p> <p>Account of observations on the influence          of benthic algae upon the growth of          marine flagellates.</p> <p>FAO:efa M</p>	<p>Nun, M. (1957) 571  <u>Fish.Bull., Haifa</u>, (13):4-10          (The fisheries of the Talmud). <u>Iw</u></p> <p>SJH MF</p>
<p>Norris, K.S. (1957) 571197  <u>Calif.Fish Game</u>, 43:317          Second record of the green sturgeon in          southern California</p> <p>Descriptive note on specimens of  <u>Acipenser medirostris</u> Ayres speared on          27/4/57 in 18 feet of water, N. of          Point Vicente, Los Angeles. TL = 77.4 cm,          Wt = 3 lb 14 oz.</p> <p>SJH:sjh M</p>	<p>Nun, M. (1957) 5712  <u>Fish.Bull., Haifa</u>, (11):21-5          (Fishing in the Old Testament). <u>Iw</u></p> <p>Article ill. with Egyptian reliefs, e</p> <p>SJH:sjh MF</p>

<p>Nun, M. (1957) 571201  <u>Fish.Bull., Haifa, (14):20-4</u>          (Seafarers and fishermen in the Jewish-Roman war). <u>Iw</u>          Figures of coins and mosaics.</p>	<p>Ochiai, A. (1957) 571204  <u>Bull.Jap.Soc.sci.Fish., 22(9):522-5</u>          (Zoogeographical studies on the soleoid fishes found in Japan and its neighbouring regions - I) <u>Ni</u> En          Quantitative distribution at representative localities is analysed by Schenck and Keen's method.</p>
<p>SJH:sjh MF</p> <p>Nunes-Ruivo, L. (1957) 571202  <u>Rev.Fac.Sci.Lisboa, 5(2):230-52</u>          Contribution à l'étude des variations morphologiques de <u>Clavella adunca</u> (H. Ström). Copepode parasite de <u>Gadus callarias</u> L. Considérations sur quelques <u>Clavella</u> parasites des Gadidae (Contribution to the research on morphologic variations of <u>Clavella adunca</u> (H. Ström). Copepode parasite of <u>Gadus callarias</u> L. Considerations on some <u>Clavella</u> parasites of Gadidae)          Taxonomic with account of morphology.</p> <p>GLK:glk M</p>	<p>SJH:tjj M</p> <p>Ochiai, A. (1957) 571205  <u>Bull.Jap.Soc.sci.Fish., 22(9):526-30</u>          (Zoogeographical studies on the soleoid fishes found in Japan and its neighbouring regions - II). <u>Ni</u> En          Redfins popularity and attempts to elucidate distribution pattern of species in five faunal subdivisions of Japanese waters.</p> <p>SJH:tjj M</p>
<p>Nystedt, L. (1957) 571203  <u>Int.hydr.Rev., 34(2):95:101</u>          Calcul automatique des réseaux hyperboliques (Automatic calculation of hyperbolic grids)          Study of the possibility of increasing precision by the use of an electronic calculator when drawing hyperbolic lines, with information on a Swedish machine for this purpose.</p> <p>FAO:glk M</p>	<p>Ochiai, A. (1957) 571206  <u>Bull.Jap.Soc.sci.Fish., 22(9):531-5</u>          (Zoogeographical studies on the soleoid fishes found in Japan and its neighbouring regions) - III). <u>Ni</u> En          Discusses 'phylogenetic' migration and relation of surface 'isothermals' with dispersal.</p> <p>SJH:tjj M</p>

<p>Odiorne, J.M. (1957) 571207  <u>In "The Physiology of Fishes". Vol. II.</u>  <u>Behaviour.</u> Edited by M.E. Brown, Academic  Press Inc., Publishers, New York,  pp. 387-401  Color changes</p>	<p>Ogino, C. and M. Suyama (1957) 571210  <u>Bull.Jap.Soc.sci.Fish.</u>, 23(4):227-9  Variations in amino acid composition of  protein during the development of egg  and the growth of young fish of rainbow  trout, <u>Salmo irideus</u></p> <p>Report on analysis of cultured samples;  significance of results with regard to  suitable diet-protein in rearing;  comparison with brook trout.</p>
<p>FAO MF</p> <p>Odum, H.T. (1957) 571208  <u>Ecol.Monogr.</u>, 27(1):55-112  Trophic structure and productivity of  silver springs, Florida</p> <p>The springs are described as being a  thermostatic, chemostatic and biostatic  ecological community in seasonally  pulsing steady state climax. Structure  and properties are described; metabolism  and production are measured and a  community budget is presented.</p> <p>GLK:glk F</p>	<p>SJH:sjh F</p> <p>Oguri, M. and T. Hibiya (1957) 571211  <u>Bull.Jap.Soc.sci.Fish.</u>, 22:621-5  (Studies on the adrenal glands of  teleosts. I. Some observations from  the viewpoint of the comparative  histology). <u>Ni En</u></p> <p>Reports and illustrates histological  studies on head kidneys and Stannius  bodies of <u>Carassius auratus</u>, <u>Parasilurus</u>  <u>asotus</u> and <u>Hexagrammos otakii</u>.</p> <p>SJH:sjh MF</p>
<p>Ogino, C. (1957) 571209  <u>J.Tokyo Univ.Fish.</u>, 43(1):7-11  An improved procedure for paper-  chromatographic determination of amino acids</p> <p>Description of one dimensional method  using several buffered solvent mixtures  after initial separation by ion-exchange  resin treatment.</p> <p>FAO:sjh MF</p>	<p>Oguri, M. and T. Hibiya (1957) 571212  <u>Bull.Jap.Soc.sci.Fish.</u>, 23(3):144-9  Studies on the adrenal glands of  teleosts - II. On the adrenal tissues in  15 species of fishes</p> <p>Comparative histological examination of  acidophil and chromaffin cells in head  kidneys and Stannius bodies of <u>Salmo</u>,  <u>Parasilurus</u>, <u>Carassius</u>, <u>Cyprinus</u>,  <u>Misgurnus</u>, <u>Anguilla</u>, <u>Channa</u>, <u>Plotosus</u>,  <u>Nippon</u>, <u>Prionurus</u>, <u>Pterois</u>, <u>Hexagrammos</u>,  <u>Lepidotrigla</u>, <u>Hoplobrotula</u> and <u>Para-</u>  <u>lichthys</u>.</p> <p>SJH:sjh MF</p>

Oliver, J.H. (1957) 571213  
Nature, Lond., 180:617  
 Production of carbon in the sea

Discussion of the significance of oxygen production in experiments in the measurement of carbon production in the sea.

GLK:glk

M

Orange, C.J., M.B. Schaefer 571216  
 and F.M Larmie (1957)  
Bull.interam.trop.Tuna Comm., 2(3):83-126  
 Schooling habits of yellowfin tuna (Neothunnus macropterus) and skipjack (Katsuwonus pelamis) in the eastern Pacific Ocean as indicated by purse seine catch records, 1946-1955.  
En Es

Frequency distributions of catch-per-set, mixing of species.

SJH:sjh

M

Olson, F.C.W. (1957) 571214  
Quart.J.Fla.Acad.Sci., 20(1):93-4  
 A seaball from Escambia County, Florida

Description of the ball.

GLK:glk

M

Oregon. Legislative Assembly. 571217  
 Special Interim Fisheries Committee (1957)  
Salem  
 Report for 1955-1957 to the Governor of the State of Oregon and the forty-ninth Legislative Assembly

MF

Omura, H. (1957) 571215  
Norsk Hvalfangsttid., 46:374-90  
 Report on two right whales caught off Japan for scientific purposes under Article VIII of the International Convention for the Regulation of Whaling

Preliminary report of a study of two right whales encompassing the following items: colour of the body and external parasitism, proportional measurements, baleen and food, weight, reproductive organs, skeleton.

FAO:hr

M

Organisation for European 571218  
 Economic Co-operation (1957)  
Paris, O.E.E.C., Projets, (136, 145)  
 Air and water pollution. The position in Europe and in the United States

MF



<p>Organisation des Nations 571219 Unies pour l'Education, la Science et la Culture (1957) UNESCO, Paris, 244 p. Ecologie humaine et animale. Compte rendu de recherches. (Human and animal ecology. Reviews of research)</p> <p>MF</p>	<p>Orr.A.P. (1957) 571222 <u>J.gen.Microbiol., (Symp.on plankton),</u> 16:273 Some factors affecting the sinking rate of diatoms</p> <p>MF</p>
<p>Orian, A.J.E. and 571220 H.G. Callan (1957) <u>J.Mar.biol.Ass.U.K., 36(1):129-42</u> Chromosome numbers of gammarids</p> <p>The chromosomes of nine species of gammarids have been studied in oocytes and embryos. There is no evidence that polyploidy has played a part in gammarid evolution. Three of the species studied, <u>Gammarus pulex</u> (L.), <u>Marinogammarus</u> <u>marinus</u> (Leach) and <u>M. pirloti</u> (Sexton and Spooner) show chromosomal polymorphism.</p> <p>HR:hr M</p>	<p>Orr, W.L. and J.R. Grady (1957) 571223 <u>Deep-Sea Res., 4(4):263-71</u> Determination of chlorophyll derivatives in marine sediments</p> <p>A rapid method is given for routine determination of acetone-soluble chlorophyll derivatives in marine sediments. The pigments are extracted from 10-100 g of wet sediment by acetone and transferred to chloroform for spectrophotometric determination.</p> <p>GLK:tl M</p>
<p>Ormerod, L. (1957) 571221 <u>Harper, New York, 331 p.</u> The curving shore; the gulf coast from Brownsville to Key West</p> <p>M</p>	<p>Ortolani, G. (1957) 5711224 <u>Ric.sci., 27(8):2475-8</u> <u>Esperimenti di merogonia nell'uovo</u> <u>fecondato di ascidie</u> (Experiments on merogony in the fertilized egg of ascidia)</p> <p>Fertilized eggs of <u>Ciona intestinalis</u> and <u>Phallusia mamillata</u> were cut, after the emission of the first or second polar body, in vertical and horizontal planes and the resultant development of the embryo was studied.</p> <p>FAO:glk M</p>

Orton, G.L. (1957) 571225  
Copeia, (1):56-8  
Embryology and evolution of the pelagic fish egg

Discusses the characterization of pelagic fish embryos, and offers some comments on the evolution and systematic interpretation of egg types in the fishes.

HR:hr

MF

Outram, D. (1957) 571228  
Turtlex News, 35(1):16-22  
The development of the Pacific herring egg

Ill. descriptions of embryonic stages comprising period of cellular division, appearance of rudimentary embryo and presence of a well-developed embryo, together with the time elapsed since fertilization.

GLK:hr

MF

Otsu, T. and 571226  
H.O. Yoshida (1957)  
Copeia, (1):58  
Another record of the rare shark, Euprotomiscus bispinatus, from the Pacific Ocean

Reports record of 1 specimen, with detailed position of capture.

HR:efa

M

Overbeck, J. (1957) 571229  
Z.Fisch., 5:285-8  
Ein Bodenstercher zur Probeentnahme in flachen Gewässern (A bottom grab for taking samples in shallow water)

Description of the instrument.

FAO:tl

MF

Outhwaite, L. (1957) 571227  
Coward-McCann, New York, 479 p.  
A history of an ocean

Owen, H.M. (1957) 571230  
Bull.Mar.Sci.Gulf Caribb., 7(1):35-46  
Etiological studies on oyster mortality. II. Polydora websteri Hartmann - (Polychaete, Spionidae)

Worm is a parasite of Crassostrea virginica; infestation is correlated with mortality of the oysters but not substantiated as a cause by laboratory experiments.

FAO:sjh

M

M

<p>Özkul, I. (1957) 571231  <u>Balık Balıkçılık</u>, 5(2):25-7  Trawl sahaları hakkında (About trawling grounds)</p> <p>Comments about the prohibitions on trawling.</p>	<p>Page, I.H. (1957) 571234  <u>Sci.Amer.</u>, 197(6):52-6  Serotonin</p> <p>Properties of substances found in blood, nervous tissue and tumors in clams, octopus and jellyfish which is connected with action of involuntary muscles and blood pressure and circulation.</p>
<p>SJH:sjh M</p>	<p>FAO:sjh M</p>
<p>Pack, Y. (1957) 571232  <u>Bull.Jap.Soc.sci.Fish.</u>, 22:657-61  (A model experiment of sardine trap net, "Hisago Ami"). <u>Ni</u> En</p> <p>Illustrated account of tank experiments on resistance and relation of net configuration to water velocity on 1/350 scale model of traps used in Tai fishing ground off west coast of Wakasa Bay, Japan.</p>	<p>Palekar, V.C. and D.V. Bal (1957) 571235  <u>Curr.Sci.</u>, 26(11):359-60  Occurrence of <u>Bactronophorus thoracites</u> (Gould), a marine wood borer, in Bombay</p> <p>Record of wood borer from living mangrove trees.</p>
<p>SJH:sjh M</p>	<p>FAO:hr M</p>
<p>Paes-Da Franca, M.L. (1957) 571233  <u>Trab.Miss.Biol.marít.</u>, (12-16):89-106  Contribuição para o conhecimento da fauna malacológica de Angola. Moluscos bivalves (Contribution to the knowledge of the malacological fauna of Angola. Bivalvular molluscs)</p> <p>A catalogue of 11 families encompassing 18 genera and 26 species with notes and description of new forms.</p>	<p>Palevski, N. (1957) 571236  <u>Bamidgeh</u>, 9:29-32  On improving growing plans in fish ponds</p> <p>Discussion of effect of faulty planning in causing the 1956 yield decrease in Affikim Co-operative Settlement.</p>
<p>FAO:hr M</p>	<p>WAD:sjh F</p>

Palmer, G. and 571237  
E.I. White (1957)  
The Zoological Society of London, 96 p.  
Zoological Record, Vol. 92, Sect. 15,  
Pisces (1955)

Reference to 1136 publications dealing  
with fish, dated 1955; with subject and  
author indexes.

FAO:sjh

MF

Palosuo, E. (1957) 571238  
Merentutkimuslait.Julk., 174:1-14  
Die Eisverhältnisse in den Finnland  
umgebenden Meeren im Winter 1955-56  
(The ice conditions in the seas  
surrounding Finland during the winter  
of 1955-1956)

Content as per title.

FAO:tl

M

Palosuo, E. (1957) 571239  
Merentutkimuslait.Julk., 173:1-40  
Jääpeitteen laajuuksien vaihtelu  
vuosina 1931-56 (The extent of the  
ice cover at the harbours on the  
Finnish coasts)

Tabulated data.

FAO:tl

M

Pampapathi Rao, K. et al.(1957) 571240  
Curr.Sci., 26:113  
Occurrence of Martesia striata L. in  
compact clay in the Krishna estuary  
region

Content as per title.

FAO:efa

MF

Pannier, F.P. (1957) 571241  
Acta cient.venezol., 8:148-61  
El consumo de oxígeno de plantas  
acuáticas en relación a distintas  
concentraciones de oxígeno (The  
oxygen consumption of aquatic plants  
in relation to different oxygen  
concentrations)

A study of the influence of the oxygen  
concentration on the rate of oxygen  
consumption by different plants, and the  
effect of oxygen on growth and cellular  
division.

FAO:hr

F

Paquette, R.G. (1957) 571242  
Tech.Rep.Dep.Oceanogr.Univ.Wash., (52)  
Conference on rapid data-handling in  
oceanography held at Lake Wilderness  
Lodge, Maple Valley, Washington, 14-16  
November 1956



Parkhurst, Z.E. and 571243  
M.A. Smith (1957)  
Progr.Fish Cult., 19(1):39  
Various drugs as aids in spawning  
rainbow trout

Short notes on the anesthetic effects  
of sodium amytal, tricaine methane-  
sulfonate (M.S.222), methyl pentynol,  
urethane, and chlorotone.

FAO:efa

F

Patterson, T.L. (1957) 571246  
Rev.canad.Biol., 16(4):505-6  
Changes in the normal motor and  
secretory responses in the stomach of  
a fish during spawning

Abstract only, describing experiments  
with the cabezon, Scorpaenichthys  
marmoratus in aquaria.

FAO:sjh

M

Parodiz, J.J. (1957) 571244  
Ann.Carneg.Mus., 35(1):9 p.  
New records of the freshwater gastropods  
from the Bahama Islands

F

Penn, G.H. (1957) 571247  
Tulane Stud.Zool., 5(10):231-63  
Variation and subspecies of the craw-  
fish Orconectes palmeri (Faxon)  
(Decapoda, Astacidae)

Defines the limits of variation and  
the geographic range of Orconectes  
palmeri palmeri, O. p. longimanus and  
O. p. creolanus.

FAO:hr

F

Pasko, D.G. (1957) 571245  
N.Y.Fish Game J., 4(1):1-31  
Carry falls reservoir investigation

F

Pennak, R.W. (1957) 571248  
Limnol.Oceanogr., 2:222-32  
Species composition of limnetic  
zooplankton communities

Discussion based on data obtained from  
27 Colorado (USA) lakes by the author  
compared with data from 42 selected  
lakes in other parts of the world,  
with special reference to species  
dominance.

HR:wad

F

Pentelow, F.T.K. et al. (1957) 571249  
Surveyor, Lond., 116:986-8  
Sewage effluents and their effect on  
fish

Permutit, Co. Ltd. (1957) 571252  
B.P. 746,609  
Reducing the concentration of electrolyte  
in a solution (particularly sea water)

MF

M

Pérès, J.M. (1957) 571250  
Bull.Fac.Sci., Marseille, (12):4-21  
Le problème de l'étagement des formations  
benthiques (Problems of zonation of  
benthic formation)

Discussion and comparison of different  
systems and nomenclatures of littoral  
zonations and proposal of a new system  
and nomenclature.

Petruschewski, G. (1957) 571253  
Z.Fisch., 5:235-46  
Die Erforschung der Fischkrankheiten in  
der Sowjetunion (Investigation on  
fish diseases in the Soviet Union)

A review with numerous Russian references.

GLK:t1

M

FAO:t1

MF

Pérès, J.M., J. Picard 571251  
and M. Ruivo (1957)  
Bull.Inst.océanogr.Monaco, (1092):1-30  
Résultats de la campagne de recherches  
du bathyscaphe F.N.R.S.III. (Results  
of the research expedition of the  
bathyscaphe F.N.R.S.III)

Contains the results of observations  
made on oceanographic conditions,  
plankton and benthos during six descents  
on the Portuguese coast.

Philip, J.R. (1957) 571254  
Ecology, 38:107-11  
Sociality and sparse populations

As asocial population of a sexual species  
is defined as one in which the  
individuals move in a random manner.  
The properties of such a population are  
investigated and compared with those of  
a "social" population in which sparsity  
of population does not limit reproductive  
opportunity.

FAO:hr

M

FAO:glk

MF

Philippines. Bureau of 571255  
Fisheries (1957)  
Manila, 61 p. (mimeo)  
Fisheries statistics of the Philippines,  
1955

Annual tables for years 1946-55 for fish  
production, consumption and requirements;  
vessel and gear inventory; fish-ponds;  
foreign trade; transport; fishing  
grounds and regions.

GLK:sjh

MF

Phillips, A.M., Jr. 571256  
and G.C. Balzer (1957)  
Progr.Fish Cult., 19:158-66  
The nutrition of trout - V. Ingredients  
for trout diets

Explains why food is necessary, what  
ingredients should be used, and the  
methods of measuring the efficiency  
of diets; tables list the chemical  
composition, the vitamin content of  
some foods and some diet mixtures.

WAD:wad

F

Phillips, A.M., Jr. 571257  
and H.A. Podoliak (1957)  
Progr.Fish Cult., 19(2):68-75  
The nutrition of trout. III. Fats and  
minerals

A review of the fat and mineral  
requirements in the animal body with  
specific reference to trout.

WAD:wad

F

Phillips, A.M. Jr. et al. (1957) 571258  
Progr.Fish Cult., 19(1):19-25  
A chemical comparison of hatchery and  
wild brook trout

Experiments on Salvelinus fontinalis  
indicate that natural foods produce  
trout superior in many chemical respects  
to trout reared on hatchery foods  
despite the assumed nutritional  
superiority of the latter.

WAD:wad

F

Phillips, O.M. (1957) 571259  
J.Fluid Mech., 2:417-45  
On the generation of waves by turbulent  
wind

MF

Piccard, J. and 571260  
R.S. Dietz (1957)  
Deep-Sea Res., 4(4):221-9  
Oceanographic observations by the  
bathyscaph TRIESTE (1953-1956)

A brief description of the bathyscaph  
principle is given, followed by a  
summary of physical, biological and  
geological observations, which have  
been made thus far. The special  
advantages of the bathyscaph over  
conventional oceanographic ships are  
mentioned.

GLK:tl

M

<p>Pickard, G.L. and R.W. Trites (1957)  <u>J.Fish.Res.Bd Can.</u>, 14:605-16  Fresh water transport determination from the heat budget with applications to British Columbia inlets</p> <p>Describes a new method based on a heat budget analysis for determining the mean seaward movement of the brackish layer. The method is also applied to gain information on the mixing process and to determine the depth from which salt water is entrained into the surface layer.</p> <p>GLK:glk MF</p>	<p>Pierson, W.J., Jr. (1957) 571264  <u>Paper presented at the Thirty-Eighth Annual Meeting, Washington, D.C., April 29 - May 2, 1957</u>  The directional spectrum of a wind-generated sea. Part II. Analysis of data and results</p> <p>M</p>
<p>Pidgaiko, M.L. (1957) 571262  <u>Vop.Ikhtiolog.</u>, 8:129-42  Zooplankton prudov stepnoi zony Ukrainy (Pond zooplankton in the steppe zones of the Ukraine)</p> <p>Discussion of qualitative and quantitative characteristics of this plankton which was composed of 18 species of cladocera, 17 species of copepoda and 23 species of rotatoria.</p> <p>FAO:glk F</p>	<p>Pillay, T.V.R. (1957) 571265  <u>Indian J.Fish.</u>, 4(1):150-9  On the abundance of the Hilsa, <u>Hilsa ilisha</u> (Hamilton) in the Hooghly and Padma rivers, during 1955</p> <p>Length frequencies and racial composition.</p> <p>GLK:glk MF</p>
<p>Pielou, E.C. (1957) 571263  <u>J.Ecol.</u>, 45:31-47  The effect of quadrat size on the estimation of the parameters of Neyman's and Thomas' distributions</p> <p>A theoretical study of clustered distributions, tested by constructing and sampling artificial populations.</p> <p>FAO:sjh MF</p>	<p>Pillay, V.K. (1957) 571266  <u>Proc.Indo-Pacif.Fish.Counc.</u>, 5:78-81  Some factors controlling algal production in salt-water lagoons</p> <p>FAO M</p>



Pimienta, J. (1957) 571267  
Bull.Com.cent.Océanogr., 9(10):565-9  
Le delta de la Medjerda (The delta  
of the Medjerda)

Description of littoral and fluviatile  
phenomena and discussion of cyclothematic  
sedimentation.

FAO:glk

MF

Piskunov, I.A. (1957) 571270  
Zool.Zh., 31(1):115-21  
On the fecundity of the herring (Clupea  
harengus pallasii V.) spawning along  
the western coast of the Sachalin  
Island

FAO

M

Pinckard, W.F. (1957) 571268  
Progr.Rep.Pacif.Cst Stas., (109):6-8  
Pomfret off the British Columbia coast

Distribution map for figure of and  
notes on Brama raii especially in  
samples taken May-Sept., 1956. Stomach  
contents.

GLK:sjh

M

Planas Mestros, J. (1957) 571271  
Invest.pesq., 7:99-103  
Estudio sobre el contenido insulínico  
del atún atlántico (A survey on  
the insulin content of the Atlantic  
tuna)

Contains the results of measurements  
of insulin in pancreatic extracts of  
Thunnus thynnus.

FAO:hr

M

Pirozhnikov, P.L. (1957) 571269  
Zool.Zh., 36(8):1273-9  
Raboty laboratorii gidrobiologii  
VNIORKH (The work of the  
hydrobiological laboratories  
of the Union Scientific Research  
Institute of Lake and River Fishery Economy)

Account of new results obtained and  
the next problems to be attacked in  
researches on Lakes Hmen and Ladozh,  
the Obi and lower Volga rivers, and  
Finnish bays.

FAO:glk

F

Plunkett, M.A. (1957) 571272  
Deep-Sea Res., 4(4):259-62  
The qualitative determination of some  
organic compounds in marine sediments

Four sediment samples from the Caribbean  
Sea were analysed qualitatively for  
free sugars, amino acids and simple  
organic acids. Two of the samples were  
from an anaerobic basin; two were from  
aerobic areas. The sediments were  
extracted with hot water and 70 per  
cent ethanol. The organic materials  
in the extracts were separated and  
studied qualitatively on paper  
chromatograms.

GLK:tl

M

Poisson, R., and G. Richard (1957) 571273  
C.R.Acad.Sci., Paris, 244:1076-9  
 Observations on swarms of corises  
 (aquatic heteropteran insects) in  
 Brittany during the summer of 1956

FAO

F

Popham, H. (1957) 571276  
Hart-Davis, Lond., 207 p.  
 Cape of Storms; trawling off the coast  
 of north Russia

M

Politis, J. (1957) 571274  
C.R.Acad.Sci., Paris, 244:511-3  
 Cytology of formation of carotinoids in  
 some fish

FAO

M

Portugal. Comissão Central 571277  
 de Pescarias (1957)  
Ministério da Marinha, Lisboa, 55 p.  
 Estatística das pescas marítimas no  
 continente e ilhas adjacentes no  
 ano de 1952 (Marine fisheries  
 statistics for the continent and  
 adjacent islands in 1952)

Production of fish, molluscs, crustacea  
 and cetaceans by species, months, area  
 and method of capture; vessels  
 constructed and operating; numbers of  
 fishermen employed. Includes data for  
 brackish waters.

:sjh

MF

Polutov, I.A. (1957) 571275  
Fish Ind., Moscow, (1):13-6  
 O zimnen tralovom promysle treski v  
 vodakh Kamchatki (On the winter  
 trawl cod fishery in Kamchatkan waters)

FAO

M

Portugal. Comissão Central 571278  
 de Pescarias (1957)  
Ministério da Marinha, Lisboa, 55 p.  
 Estatística das pescas marítimas no  
 continente e ilhas adjacentes no ano  
 de 1953 (Marine fisheries statistics  
 for the continent and adjacent islands  
 in 1953)

Production of fish, molluscs, crustacea  
 and cetaceans by species, months, area  
 and method of capture; vessels  
 constructed and operating; numbers  
 of fishermen employed. Includes data  
 for brackish waters.

:sjh

MF

Postel, E. (1957) 571279  
Pêche marit., 36:298-9  
La pêche en Tunisie (Fisheries in  
Tunisia)

Notes on the species of crustaceans  
commercially caught in Tunisia.

FAO:hr

M

Potter, E.C. (1957) 571280  
J.appl.Chem., 7:285-97  
Microdetermination of dissolved oxygen  
in water. I. Nature of the problem

MF .

Potter, E.C. (1957) 571281  
J.appl.Chem., 7:297-308  
Microdetermination of dissolved oxygen  
in water. II. Design of water-sampling  
vessels

MF

Potter, E.C. (1957) 571282  
J.appl.Chem., 7:309-17  
Microdetermination of dissolved oxygen  
in water. III. Titrimetric determination  
of iodine in submicrogram amounts

MF

Potter, E.C. and 571283  
J.F. White (1957)  
J.appl.Chem., 7:317-28  
Microdetermination of dissolved  
oxygen in water. IV. Test of Winkler's  
reaction to below 0-001 p.p.m. of  
dissolved oxygen

MF

Potter, E.C. and 571284  
J.F. White (1957)  
J.appl.Chem., 7:459-67  
Microdetermination of dissolved  
oxygen in water. V. Development of  
a self-testing and fully compensating  
analytical method

MF

Powell, C. (1957) 571285  
Int.hydro.Rev., 34(1):53-8  
Le système de navigation "Decca" en  
hydrographie (The navigation  
system "Decca" in hydrography)

A brief summary of some examples of the  
use of "Decca" in hydrography with some  
leads for its present and future  
development.

FAO:hr

M

Preddy, W.S. (1957) 571288  
Challenger Soc., 3(9):32  
The Thames estuary and its pollution.  
IV. Prediction of conditions in the  
estuary

Abstr. of paper read at Joint Meeting  
of the Water Pollution Research  
Laboratory, Stevenage; and Zoological  
Society of London, Regent's Park,  
London. 24th and 25th January, 1957.  
Outline of method of calculating  
conditions of water from nature and  
amounts of effluents discharged.

SJH:efa

MF

Powell, R. (1957) 571286  
Quart.Bull.S.Pacif.Comm., 7(1):15-7  
Pearl shell transfer in the Cook Islands

Account of an experimental transplanta-  
tion of Pinctada margaritifera, with  
description of equipment.

:glk

M

Pringsheim, E.G. (1957) 571289  
Nature, Lond., 180:1296-7  
Two species of Trachelomonas  
(Eugleninae) without chlorophyll

A record of two heterotrophic forms:  
one may be T. volvocina var. hyalina;  
the other is T. reticulata.

GLK:wad

MF

Prasad, R. Raghu (1957) 571287  
Indian J.Fish., 4(1):20-31  
Seasonal variations in the surface  
temperature of sea-water at Mandapan  
from January 1950 to December 1954

Monthly maximum and minimum  
temperatures and monthly deviations  
from the "normal" as represented by  
the total monthly averages during  
the period, and relation between  
atmospheric and surface temperatures.

GLK:glk

M

Pritchard, D.W. (1957) 571290  
Paper presented at the Thirty-Eighth  
Annual Meeting, Washington, D.C.,  
April 29 - May 2, 1957  
On the question of non-tidal drift  
in estuaries

MF



Privol'nev, T. (1957) 571291  
Sci. and Life, Moscow, 24:63  
Are there fish living without water?

MF

Proudman, J. (1957) 571294  
J. Fluid Mech., 2:371-82  
Oscillations of tide and surge in an  
estuary of finite length

MF

Prophet, C.W. (1957) 571292  
Res. Stud. St. Teach. Coll. Emporia, 5(3):  
56 p.  
Seasonal variations and abundance of  
Cladocera and Copepoda and some  
physical-chemical conditions of the  
Fall and Verdigris rivers in Wilson  
and Montgomery Counties, Kansas

F

Provasoli, L., J.J.A. McLaughlin 571295  
and M.R. Droop (1957)  
Arch. Mikrobiol., 25:392-428  
Artificial media for marine algae

M

Prosser, C.L. et al. (1957) 571293  
Physiol. Zool., 30(2):137-41  
Acclimation of goldfish to low  
concentrations of oxygen

Experimental comparison of (1) critical  
concentration (break between independent  
and dependent metabolism), (2) oxygen-  
independent metabolism, (3) haemoglobin  
concentration and red-cell count,  
(4) oxidative activity of tissues, in  
fish acclimated to low oxygen concentra-  
tion and fish in aerated water.

FAO:glk

F

Pucher-Petkovic, T. (1957) 571296  
Acta adriat., 6:1-56  
Etude du phytoplancton dans la région  
de l'île de Mljet dans la période 1951-  
1953. (A study of the phytoplankton  
in the region of the Island of Mljet  
during 1951-1953). Hr

A quantitative and qualitative study  
of the phytoplankton of the lakes  
Mljet and of Gonoturska carried out  
concurrently with experiments of  
fertilization.

FAO:glk

F

Puke, C. (1957) 571297  
Vandringsfisk.Medd., (6):8 p. (mimeo)  
 Naturdammsundersökningar i nedre  
 Norrland 1956 (Investigations on  
 natural ponds in lower Norrland 1956)

Results of investigations on the  
 production of salmon and trout smolt  
 in different ponds and the influence  
 of different environmental conditions  
 on the production.

TL:tl

F

Radan, G. (1957) 571300  
Fish.Bull., Haifa, (14):12-3  
 (Attic fish plate). Iw En

Describes and figures a plate in  
 possession of Haifa Maritime Museum,  
 with identifiable fish (Torpedo,  
Sargus, and Pagellus) in the  
 decoration.

SJH:sjh

M

Rabouille, G. (1957) 571298  
Bull.franç.Pisc., 30(187):37-47  
 La protection des eaux contre la  
 pollution dans le bassin industriel  
 de Longwy (The protection of  
 water from pollution in the industrial  
 basin of Longwy)

Describes methods of treatment of  
 residues.

FAO:hr

F

Rae, K.M. (1957) 571301  
Bull.Mar.Ecol., 4(38):247-69  
 A relationship between wind, plankton  
 distribution and haddock brood strength

Distribution of Metridia lucens;  
 relationship between the wind and the  
 distribution of Metridia, the movement  
 of plankton and haddock brood strength  
 in the northern North Sea.

FAO:tl

M

Racek, A.A. (1957) 571299  
Res.Bull.St.Fish., N.S.W., (2):209-41  
 Littoral Penaeidae from New South  
 Wales and adjacent Queensland waters

GLK

M

Rae, K.M. (1957) 571302  
J.gen.Microbiol.(Symp.on plankton),  
 16:265-7

Plankton around the British Isles

Summary on the significance of indicator  
 species.

FiB:tl

M

Rahn, J. (1957) 571303  
Dtsch.Fisch.Ztg, 4:70-2  
Satzzaale oder Aalbrut? (Stocking  
with eel or with eel fry?)

Discussion on the results of stocking  
of waters with eel and eel fry and  
profitability.

FAO:tl

F

Ramasasthy, A.A. et al. (1957) 571306  
Proc.Indian Acad.Sci., 46B:293-323  
Thermal field and oceanic circulation  
along the east coast of India

M

Rakestraw, N.W., P.L. Horrer 571304  
and W.S. Wooster (1957)  
University of California Press, Berkeley  
and Los Angeles, 363 p.  
Oceanic observations of the Pacific  
1949

M

Ranade, M.R. (1957) 571307  
J.Mar.biol.Ass.U.K., 36(1):115-9  
Observations on the resistance of  
Tigriopus fulvus (Fischer) to  
changes in temperature and salinity

Tigriopus fulvus can live normally within  
a salinity range of from 4.2 to 90‰.  
In waters of salinities above 90‰ it  
falls into a state of apparent death  
from which it can recover if transferred  
back to lower salinities. The lethal  
temperatures vary between 32.0 and  
41.8 C. depending on the salinity of  
the sea water, the lethal temperature  
being higher in higher salinities. The  
fluctuations in salinity and temperature

Ralph, P.M. (1957) 571305  
Trans.roy.Soc.N.Z., 84(4):811-54  
New Zealand thecate hydroids. Part I.  
Campanulariidae and Campanulinidae

Reviews the New Zealand hydroid  
literature; keys the New Zealand  
families of thecate hydroids, the  
genera and species of New Zealand  
Campanulariidae and Campanulinidae;  
describes and discusses the systematic  
status of the New Zealand species of  
these two families; proposes certain  
changes in nomenclature; gives some  
new records.

FAO:glk

M

571307  
(Card 2)

in the pools where the animals were  
collected are well within their  
tolerance limits.

HR:hr

M

Ranade, M.R. (1957) 571309  
Nature, Lond., 179:151-2  
 Reversal of phototaxis in the larvae of  
Polydora pulchra Carazzi (Polychaeta,  
 Spionidae)

Experiments indicating that direction  
 of phototaxis is determined by salinity.

GLK:wad

M

Rao, K.V.N. (1957) 571312  
J.Indian bot.Soc., 36:87-91  
 On a form of Raphidiopsis mediterranea  
 Skuja

F

Ranade, M.R. and 571310  
 J.S. Colman (1957)  
Rep.Mar.biol.Sta.Pt Erin, 69:34-9  
 Notes on the west pond at Port Erin

Water temperature composition, and  
 plankton content of sea-water pond  
 used for stocking fish, April-June,  
 1956, and comparison with local sea  
 conditions in same period.

FAO:sjh

M

Rao, K.V.N. and K.P. Rao (1957) 571313  
Nature, Lond., 180:711-2  
 Differences in the food of the young  
 and adult Indian mackerel, Rastrelliger  
kanagurta (Cuv.)

When longer than 90 mm plankton forms  
 the principal food. Below this size  
 feeding is selective, and fish larvae  
 form staple diet. Growth of gut is  
 allometric, and change in diet  
 coincides with change of relative  
 growth rate of gut.

GLK:jae

M

Ranganathan, B. and 571311  
 C.A. Sastry (1957)  
J.Indian Inst.Sci., 39A:259-62  
 Vitamin requirements of Torulopsis  
glabrata, a marine yeast

M

Rapoport, E.H. (1957) 571314  
Nature, Lond., 179(4560):637-8  
 Population studies on three species of  
 Cladocera

Studies on the morphological changes  
 (seasonal and local) of the Cladoceran  
Bosmina obtusirostris.

GLK:glk

M



Rasmussen, B. (1957) 571315  
Norsk Hvalfangsttid., 46:45-59  
Exploitation and protection of the East  
Greenland seal herds

A study of the biology, dynamics of the  
populations, catches, and measures of  
protection of the species of hairseals,  
hooded seal (Cystophora cristata) and  
harp sea (Phoca groenlandica).

FAO:shr

M

Rattray, M., Jr. (1957) 571318  
Trans.Amer.geophys.Un., 38(4):495-500  
Propagation and dissipation of long  
internal waves

The effect of friction on the propagation  
of long internal waves in a rotating  
ocean is investigated theoretically for  
the simple case of a two-layer system  
subjected to a constant eddy viscosity.  
Waves of inertial period are excluded.

GLK:tl

M

Rathjen, W.F. and 571316  
L.C. Miller (1957)  
N.Y.Fish Game J., 4(1):43-60  
Aspects of the early life history of  
the striped bass (Roccus saxatilis)  
in the Hudson river

MF

Reed, C.A. (1957) 571319  
Copeia, (1):51  
Non-swimming water turtles in Iraq

Reports brief observations on non-  
swimming behaviour of Clemmys caspica  
caspica (Gmelin).

HR:efa

F

Rattray, M., Jr. (1957) 571317  
Trans.Amer.geophys.Un., 38(5):675-9  
On the offshore distribution of tide  
and tidal current

The tides and tidal currents in offshore  
regions where the frictional effect is  
negligible are obtained from the tides  
at the adjacent shore stations by an  
approximate solution of the tidal  
equations.

FAO:tl

M

Rees, C.B. (1957) 571320  
Bull.Mar.Ecol., 37:211-46  
Continuous plankton records: the  
distribution of Calanus finmarchicus  
(Gunn.) in the North Sea and north-  
eastern Atlantic, 1946-1953

Distribution and seasonal and year to  
year variations in abundance. Life  
history and the different ecological  
requirements and different geographical  
distribution of the two different forms  
finmarchicus and helgolandicus.

FAO:tl

M

<p>Rees, W.H. (1957) 571321  <u>Fish.Res.Pap.Wash.Dep.Fish.</u>, 2(1):5-17  The vertical and horizontal distribution of seaward migrant salmon in the forebay of Baker dam</p> <p>Experiments conducted spring 1955 with sets of nylon gill nets to study <u>Oncorhynchus nerka</u> and <u>O. kisutch</u>. Catches per unit effort in various positions and at various times; selectivity of nets, effect of weather conditions.</p>	<p>Reid, G.K. (1957) 571324  <u>Copeia</u>, (2):157-8  External morphology of an embryo whale shark, <u>Rhincodon typus</u> Smith</p> <p>Contains description and dimensions of the specimen found in Texas waters.</p>
<p>FAO:sjh MF</p> <p>Rees, W.J. and E. White (1957) 571322  <u>Discovery Rep.</u>, 29:129-40  New observations on the aberrant medusa <u>Tetraplatia volitans</u> Busch</p> <p>Geographical and vertical distribution and correlations to hydrographic conditions.</p>	<p>HR:efa M</p> <p>Reid, G.K. (1957) 571325  <u>Limnol.Oceanogr.</u>, 2:198-212  Biologic and hydrographic adjustment in a disturbed gulf coast estuary</p> <p>Hydrographic investigations of East Bay, Galveston, Texas, before and after the excavation of a pass, including the change of marine fauna in the bay.</p>
<p>FAO:glk M</p> <p>Regenthal, A.F. (1957) 571323  <u>Fish.Res.Pap.Wash.Dep.Fish.</u>, 2(1):19-24  Downstream migrant salmon survival in free fall from a ski-jump spillway</p> <p>Survival of tagged <u>Oncorhynchus kisutch</u> after passage over Baker dam on Baker river, Washington, USA.</p>	<p>HR:tl MF</p> <p>Reid, R.O. (1957) 571326  <u>Tech.Memor.U.S.Army Eros.Bd</u>, (93):33 p.  Modification of the quadratic bottom-stress law for turbulent channel flow in the presence of surface wind-stress</p>
<p>FAO:sjh MF</p>	<p>M</p>

Reid, R.O. and 571327  
K. Kajiura (1957)  
Trans.Amer.geophys.Un., 38(5):662-6.  
On the damping of gravity waves over a  
permeable sea bed

The problem of damping of gravity waves  
over a permeable sea bed of great depth  
is re-examined, using a more rigorous  
approach than that employed by Putnam  
in 1949.

FAO:tl

M

Reimers, N. (1957) 571328  
Calif.Fish Game, 43(1):43-69  
Some aspects of the relation between  
stream foods and trout survival

Experiments and observations bearing on  
the general problems of winter trout  
food availability, trout vitality, and  
trout survival as related to food.

HR:wad

F

Reish, D.J. (1957) 571329  
Industr.Wastes, 2:114-8  
Effect of pollution on marine life

M

Remington, J.D. (1957) 571330  
Sea Frontiers, 3:98-108  
Saga of the sockeye

Popular account of the history of the  
salmon fishery in the Fraser river  
system.

HR:sjh

F

Resovskaya, E.A.T. (1957) 571331  
Bull.Soc.Nat.Moscou, 62(1):37-41  
Biological de-activation of water  
containing radio-active substances  
by means of special ponds

F

Revelle, R. (1957) 571332  
Science, 126(3287):1319-23  
International cooperation in marine  
sciences

Account of UNESCO's marine science  
programme and of the Special Committee  
on Oceanic Research established by the  
International Council of Scientific  
Unions.

FAO:glk

M

Revelle, R. and 571333  
H.E. Suess (1957)  
Tellus, 9:18-27  
Carbon dioxide exchange between  
atmosphere and ocean and the  
question of an increase of atmospheric  
CO<sub>2</sub> during the past decades

From a comparison of C<sup>14</sup>/C<sup>12</sup> and C<sup>13</sup>/C<sup>12</sup>  
ratios in wood and in marine material and  
from a slight decrease of the C<sup>14</sup>  
concentration in terrestrial plants  
over the past 50 years it can be  
concluded that the average lifetime of  
a CO<sub>2</sub> molecule in the atmosphere  
before it is dissolved into the sea is  
of the order of 10 years.

FAO:glk

M

Richardson, F. (1957) 571336  
Bull.Bishop Mus., Honolulu, 218:41 p.  
The breeding cycles of Hawaiian sea  
birds

M

Reznichenko, O.G. (1957) 571334  
Zool.Zh., 36(9):1312-22  
Ekologiya i kormovoe znachenie Ponto-  
gammarus maeoticus (Sow.) Azovskogo  
moria (Bionomics and feeding value  
of Pontogammarus maeoticus (Sow.) in the  
sea of Azov)

Observations of the distribution of  
Pontogammarus in connection with its  
behaviour, mode of life and feeding  
habits as related to the movement of  
the water.

FAO:tl

M

Richardson, I.D. (1957) 571337  
Fish.News Lett.Aust., 16(8):7-9  
Problems in mid-water trawling

Reprint of article originally published  
in "World Fishing (London)".

GLK:sjh

M

Richardson, E.G. (1957) 571335  
Elsevier, Amsterdam, 412 p.  
Technical aspects of sound. Vol.2.  
Ultrasonic range, underwater acoustics

Richdale, L.E. (1957) 571338  
Oxford: Clarendon Press; London: Oxford  
University Press, 195 p.  
A population study of penguins

Includes information on fish as food  
of Megadyptes antipodes.

M

:sjh

M



Ricotta, C.M.B. (1957) 571339

Experientia, 13(12):491-2

On the adenosinetriphosphatase activity of the particulates of the egg of the sea urchin Paracentrotus lividus

Separation of mitochondria and measurement of ATPase activity.

FAO:glk

M

Riley, J.P. (1957) 571342

Challenger Soc., 3(9):35

Recent chemical work in the Department of Oceanography, Liverpool

Abstr. of paper read at Joint Meeting of the Water Pollution Research Laboratory, Stevenage; and Zoological Society of London, Regent's Park, London, 24th and 25th January, 1957. Notes on recent developments in analytical chemistry of sea-water with particular reference to colorimetric determination of nitrate and use of micro diffusion for estimation of ammonia, total ionic inorganic nitrogen, and amino-nitrogen.

SJH:efa

M

Riggs, C.D. (1957) 571340

Copeia, (2):158-9

Mugil cephalus in Oklahoma and northern Texas

Reports record of sp. and gives possible explanation for presence.

HR:efa

MF

Riley, J.P. and

571343

P. Sinhaseni (1957)

J.Mar.biol.Ass.U.K., 36(1):161-8

The determination of ammonia and total ionic inorganic nitrogen in sea water

Microdiffusion using a Cavett flask has been employed instead of vacuum distillation for the separation of ammonia from sea water. The recovered ammonia is determined by a modification of the phenate-hypochlorite method. Raney nickel in the presence of ethylenediamine-tetraacetic acid has been used for the reduction of nitrate and nitrite to ammonia. The latter is separated by microdiffusion and determined colorimetrically. No

Riley, G.A. (1957) 571341

Limnol.Oceanogr., 2:252-70

Phytoplankton of the north central Sargasso Sea, 1950-52

Quantitative and qualitative analysis of phyto- and zooplankton, collected weekly by weather ship (35° N, 48° W). Estimation of basic organic production at that position. Investigations include also temperature measurement and Secchi disk readings.

HR:tl

M

571343  
(Card 2)

interference was encountered from a variety of organic nitrogen compounds.

HR:tl

M

Risley, H.M. (1957) 571345  
J.Ass.Off.agric.Chem.Wash., 40:343-5  
 Determination of total solids and ether  
 extract in fish and other marine  
 products

M

Roberts, J.L. (1957) 571346  
Physiol.Zoöl., 30:232-42  
 Thermal acclimation of metabolism in  
 the crab Pachygrapsus crassipes Randall.  
 I. The influence of body size,  
 starvation, and molting

Considers metabolism-size relations  
 with regard to temperature, starvation  
 and molting, and discusses the method  
 used to standardise grouped respiration  
 data of crabs in specific experiments  
 to a common weight as applied in  
 acclimation studies reported else-  
 where.

FAO:glk

M

Rivoro, J.A. (1957) 571346  
Paper presented at the Inter-Island  
Marine Biological Conference, March 31  
to April 6, 1957  
 Haematotholassia in Puerto Rico

Description of the outbreak,  
 observations made on fish mortality  
 and B<sub>12</sub> assays of deposits formed  
 from settling of the dinoflagellate.  
 Abstract in "Report by the Institute  
 of Marine Biology, University of  
 Puerto Rico".

HR:glk

M

Roberts, J.L. (1957) 571349  
Physiol.Zoöl., 30:242-55  
 Thermal acclimation of metabolism in  
 the crab, Pachygrapsus crassipes  
 Randall. II. Mechanisms and the  
 influence of season and latitude

Study of adult phenotypic compensations  
 by the shore crab, Pachygrapsus  
crassipes, with attempts to  
 characterise the pattern of development  
 and the degree attained of respiratory  
 acclimation to experimental temperatures  
 in both local and latitudinally  
 separated populations. Discussion of the  
 ecological significance of temperature  
 acclimation and of the structural level  
 at which it functions.

FAO:glk

M

Roberts, B. and 571347  
 T. Armstrong (1957)  
Polar Rec., 8(55):306-16  
 The Arctic Institute, Leningrad

Description of the institute and its  
 activities.

FAO:t1

MF

Robertson, J.S. (1957) 571350  
Physiol.Rev., 37:133-54  
 Theory and use of tracers in determining  
 transfer rates in biological systems

Notes on terminology and mathematical  
 treatment of the results in different  
 systems with and without recycling of  
 tracers.

FAO:t1

MF

Robertson, O.H. (1957) 571351  
Calif. Fish Game, 43(2):119-30  
 Survival of precociously mature king  
 salmon male parr (Oncorhynchus  
mykiss Wilsch.) after spawning  
 laboratory, experiment and post-mortem  
 of 60 ripe parr.

FAO:sjh

F

Robins, C.R. (1957) 571354  
Mar. Lab. Univ. Miami, 57-13:1-8 (mimeo)  
 The Charles F. Johnson oceanic gamefish  
 investigations. A study of bluefin tuna  
 populations from the eastern and  
 western North Atlantic based on an  
 analysis of fin-ray and gill-raker  
 counts

No difference between groups of  
Thunnus thynnus in the Atlantic were  
 found, but gill-raker differences  
 between Atlantic and California stocks  
 show divergence of at least sub-  
 specific, and possibly specific order.  
 If latter is confirmed, T. saliens is  
 available name for California group.  
 FAO:sjh M

Robertson, O.H. and 571352  
 B.C. Wexler (1957)  
Science, 125:1295-6  
 Pituitary degeneration and adrenal  
 tissue hyperplasia in spawning  
 Pacific salmon

Account of histological changes of this  
 gland as sexual development proceeds;  
 comparison with corresponding phenomena  
 in the rainbow trout, and discussion  
 of their significance with regard to  
 senescence.

FAO:glk

F

Robins, C.R. (1957) 571355  
Mar. Lab. Univ. Miami, 57-14:6 p. (mimeo)  
 The Roger Firestone tarpon investigation.  
 Progress Report, May, 1957

Notes on spawning, life history, adult  
 migration and growth of the tarpon  
 (Megalops atlantica).

FAO:tl

MF

Robins, C.R. (1957) 571353  
Bull. Mar. Sci. Gulf Caribb., 7(3):266-75  
 Effects of storms on the shallow-water  
 fish fauna of southern Florida with  
 new records of fishes from Florida

The importance of storms as a limiting  
 factor in the shoreward distribution  
 of many fishes is noted. The specimens  
 collected after a storm kill in the  
 region of Miami, Florida, include  
 several species previously unrecorded  
 or of rare occurrence in Florida waters.

FAO:glk

M

Robins, C.R. and 571356  
 E.C. Raney (1957)  
Tulane Stud. Zool., 5(12):291-318  
 The systematic status of the suckers of  
 the genus Moxostoma from Texas, New  
 Mexico and Mexico

Key; description and synonymy of each  
 species with notes on coloration,  
 sexual dimorphism and distribution.

FAO:glk

F



Robinson, G.A. (1957) 571357  
Bull.Mar.Ecol., 4:203-9  
The forms of Rhizosolenia alata  
Brightwell

Differentiation of several forms by  
size-frequency distribution of cells.

FAO:sjh

M

Rochford, D.J. (1957) 571358  
Oceanogr.Sta.List, 28:1-88  
Surface sampling in the Tasman and  
Coral Seas, 1955

Tabulated hydrographical data.

GLK:tl

M

Rochford, D.J. and 571359  
R.S. Spencer (1957)  
Oceanogr.Sta.List, 27:1-145  
Onshore and oceanic hydrological  
investigations in eastern and south-  
western Australia, 1955

Tabulated hydrographical data.

GLK:tl

M

Rochford, D.J. and 571360  
R.S. Spencer (1957)  
Oceanogr.Sta.List, 30:79 p.  
Onshore and oceanic hydrological  
investigations in eastern and south-  
western Australia, 1956

Tabulated oceanographical data (including  
O<sub>2</sub>, pH, NO<sub>3</sub>-N and total P).

GLK:tl

M

Rochford, D.J. and 571361  
R.S. Spencer (1957)  
Oceanogr.Sta.List, 31:150 p.  
Surface sampling in the Tasman and  
Coral Seas and the south-eastern  
Indian Ocean, 1956

Tabulated oceanographical data (date,  
position, depth, T. Cl<sup>o</sup>/oo and total  
P).

GLK:tl

M

Röbke, H. (1957) 571362  
Veröff.Inst.Meeresf., 5(1):103-12  
Beitrag zum Chemismus der Unterweser  
unter besonderer Berücksichtigung der  
Erdalkalien und ihrer ökologischen  
Bedeutung (Contribution to the  
chemistry of lower Weser with special  
consideration of metals of alkaline  
earth and their ecological significance)

Distribution of chlorine, manganese,  
calcium and suspended matter in lower  
Weser and discussion of their ecological  
significance.

GLK:tl

MF



Roels, O.A. (1957) 571363  
Bull. Agric. Congo belge, 48(2):423-38  
 La poudre de poisson frais déshydraté  
 pour l'alimentation de l'homme  
 (Dehydrated fresh fish powder as a  
 human food)

M

Ronald, K. (1957) 571366  
Canad. J. Res. (Zool.), 35(3):437-9  
 The metazoan parasites of the Heterosomata of the Gulf of St. Lawrence

Echinorhynchus laurentianus sp. nov.  
 (Acantocephala: Echinorhynchidae) is  
 described from Hippoglossoides platesoides,  
Hippoglossus hippoglossus, Pseudo-  
plouronectes americanus and Scophthalmus  
aquosus from the Gulf of St. Lawrence.

FAO:hr

M

Rogers, K.T. (1957) 571364  
Biol. Bull., Wood's Hole, 112(1):241-8  
 Optokinetic testing of cyclopean and  
 synophtalmic fish hatchlings

Account of experiments to test cyclopean  
 individuals for vision and with results  
 of optokinetic drum testing.

Roland, L.D. (1957) 571367  
Atomics, 8:131-5  
 Ion exchange. Five contributions to  
 nuclear technology

FAO:efa

F

MF

Rogick, M.D. (1957) 571365  
Biol. Bull. Wood's Hole, 112(1):120-31  
 Studies on marine Bryozoa. X. Hippadenella  
carsonae n.sp.

A detailed description of the  
 morphological features of Hippadenella  
carsonae, new species and to note other  
 species which are ecologically  
 associated with it.

Rosa, H., Jr. (1957) 571368  
FAO/57/10/6958, 81 p. (mimeo)  
 A synopsis of biological data on the  
 species of Trichiuridae

First draft summary and review according  
 to standard pattern of information  
 accumulated in Species and Stocks  
 Thesaurus of FAO Fisheries Division  
 Biology Branch.

FAO:glk

M

FiB:sjh

M

Rouch, J. (1957) 571369  
Bull.Inst.oceanogr.Monaco, (1095): 1-20  
L'Antarctide américaine (The  
American Antarctic)

Contains information on the boundaries  
and geography of the region, limits  
of the pack-ice barometric pressure,  
air temperature, and winds.

FAO:hr

M

Rounsefell, G.A. (1957) 571372  
Fish.Bull., U.S., 57:265-78  
A method of estimating abundance of  
groundfish on Georges Bank

Calibration of otter-trawl fishing  
effort statistics by depth fished  
and vessel size, and calculation of  
sampled effective effort for each  
species (tabulated) by usual method.

WAD:sjh

M

Round, F.E. (1957) 571370  
J.Ecol., 45:133-48  
Studies on bottom-living algae in some  
lakes of the English lake district.  
Part I. Some chemical features of the  
sediments related to algal pro-  
ductivities.

Comparisons between lakes of organic  
material and calcium, pH, and many  
other elements and characteristics of  
the muds and relation of these to type  
and amount of algae, and to lake  
classifications.

FAO:sjh

F

Roussov, G. (1957) 571373  
J.Fish.Res.Bd Can., 14:553-72  
Some considerations concerning  
sturgeon spawning periodicity

Discusses the periodicity observed in  
age and length curves and in cross-  
sections of the first ray of the  
pectoral fin serving for the  
determination of age. The relation  
between the structural features of the  
ray cross-sections and physiological  
events is discussed.

GLK:glk

F

Round, F.E. (1957) 571371  
J.Ecol., 45:343-60  
Studies on bottom-living algae in some  
lakes of the English lake district.  
Part II. The distribution of Bacillari-  
phyceae on the sediments

Continuation from 571370, with  
discussion and bibliography.

FAO:sjh

F

Rovira, J.M.R. (1957) 571374  
Inform.Quim.anal., 11:99-102  
Spectrophotometric determination of  
copper in (sea) salt

M

Rowett, H.G.Q. (1957) 571375  
Rinehart and Co., Inc., New York 16, 62 p.  
Dissection guides. II. The dogfish

M

Royce, W.F. (1957) 571376  
Biometrics, 13:546  
Statistical comparisons of morphological data

Abstract of paper presented at meeting of Biometric Society and American Institute of Biological Sciences, 27-8/8/57, dealing with techniques applicable to racial studies of tunas.

SJH:sjh

M

Rühmer, K. (1957) 571377  
Verlag Paul Parey, 204 p.  
Die Süßwasserfische und Krebse der europäischen Gewässer (Freshwater fish and lobsters in European waters)  
New (3rd) edition of Rühmer, K., 1952.

MF

Ruhland, W. (Ed.) (1957) 571378  
Handb.PflPhysiol., (9)  
Der Stoffwechsel der schwefel- und phosphorhaltigen Verbindungen (The metabolism of sulfur and phosphorus-containing compounds)

Contains following chapters: Part played by S-containing compounds in metabolism; assimilation of sulfur and physiology of essential S-compounds; secondary organic sulfur-compounds of plants; the sulfur specialists among micro-organisms; the cycle of sulfur in nature; accumulation of phosphoric acid; the phosphatides; the phosphoric acid esters in carbohydrate metabolism; P-containing coenzymes; etc.

:tl

MF

Ruivo, M. (1957) 571379  
Bol.Pesca, (53):13 p.  
Factores de conversao e indices de aproveitamento do bacalhau (Gadus callarias L.). Investigações portuguesas na área da I.C.N.A.F.; campanhas de 1954-55 (Conversion factors and indexes of net value of cod (Gadus callarias L.). Portuguese investigations in the I.C.N.A.F. area. Fishing expeditions of 1954-55)

The conversion factor 3.0 is proposed for the conversion of weights of green salt cod landed from the Portuguese fleet, to round fresh fish, as coming from the sea in the I.C.N.A.F. area.

GLK:hr

M

Russell, C.R. (1957) 571380  
Trans.roy.Soc.N.Z., 84(4):897-902  
Some rotifers from the South Pacific Islands and northern Australia

Lists 29 species collected from the area.

FAO:glk

F



Rutstein, M.S. (1957) 571381  
Trans.Amer.geophys.Un., 38(5):688-9  
 Flooded quarries for experimental work

Flooded quarries have some technical and economic advantages for underwater experimental work and for testing oceanographic equipment, particularly where explosions are involved or where wave action must be minimized. The quarries visited in and near New England are described.

FAO:tl

MF

Ryhänen, R. (1957) 571384  
FiskTidskr.Finl., 64(2):42-4  
 Havaintoja Isojoen taimenista (Notes on the sea trout in the river Isojoki)

Growth, life history and abundance of sea trout in the river.

FAO:tl

F

Ruud, J.T. and P.Øynes (1957) 571382  
Norsk Hvalfangsttid., 46:59-63  
 Report on whale marking carried out by Norwegian catchers in the antarctic season 1955/56

Reports on the whale marking operations during the season 1955/56 and gives the results of markings done during the two previous seasons 1953/54 and 1954/55.

FAO:tl

M

Ryhänen, R. (1957) 571385  
FiskTidskr.Finl., 64(3):84-7  
 Havaintoja Isojoen taimenista (Notes on the sea trout in the river Isojoki)

Continuation from 571384.

FAO:tl

M

Ryhänen, R. (1957) 571383  
FiskTidskr.Finl., 64(1):7-12  
 Havaintoja Isojoen taimenista (Notes on the sea trout in the river Isojoki)

Data on the morphology of the river basin, runoff, water chemistry and on the occurrence of different fish species and their distribution and abundance.

FAO:tl

F

Ryther, J.H. and C.S. Yentsch (1957) 571386  
 The estimation of phytoplankton production in the ocean from chlorophyll and light data

A method is described by means of which organic production beneath a unit of sea surface may be estimated from the chlorophyll content of the water, the total daily solar radiation reaching the sea surface, and the extinction coefficient of visible light in the water column. Production values calculated by this method are compared with values obtained by in situ productivity measurements.

HR:tl

M



Saidova, Kh.M. (1957) 571387  
C.R.Acad.Sci.U.R.S.S., 115(6):1213-6  
 O raspredelenii foraminifer v tolshche  
 osadkov Okhotskogo moria (The  
 distribution of Foraminifera in the  
 deposits of the Okhotsk Sea)

FAO

M

Saiki, M. et al. (1957) 571388  
Bull.Jap.Soc.sci.Fish., 22:645-50  
 (Studies on the radioelements in the  
 contaminating radioactive fish. II. On  
 skipjacks caught at the Pacific Ocean  
 in 1956 (Part 1)). Ni En

Isotope distribution of zinc and other  
 elements in various body organs of 2  
 specimens of Katsuwonus pelamis caught  
 13/6/56 at 14°03'N, 157°28'E.

SJH:sjh

M

Sainio, P. (1957) 571389  
FiskTidskr.Finl., 64(4):107-9  
 "Roskakalan" tuhoaminen räjähdysaineita  
 käyttäen (Destruction of valueless  
 fish by explosives)

Notes on experiments made for destruction  
 of valueless stocks of fish in small  
 lake.

FAO:tl

F

Saint-Guily, B. (1957) 571390  
Bull.Inst.oceanogr.Monaco, (1090):1-8  
 Sur le coefficient vertical de  
 turbulence dans les courants de  
 vent et de ponté (On the vertical  
 coefficient of turbulence in the wind  
 and descent currents)

The expression of the mean coefficient  
 of turbulence is deducted from the  
 hypothesis of Prandtl. The numerical  
 factor is fixed by the figure length  
 of mixing.

FAO:hr

M

Saito, K. (1957) 571391  
Bull.Jap.Soc.sci.Fish., 22(12):752-9  
 (Biochemical studies on the fish blood.  
 VIII. On the electrophoretic specificity  
 of serum proteins). Ni En

Specificity of serum studied in relation  
 to taxonomy and habitats, of Cyprinus,  
Carassius, Chrysophrys, Trachurus,  
Decapterus, Coryphaena, Scomber, Thunnus,  
Squalus and Mustelus.

SJH:sjh

MF

Saito, K. (1957) 571392  
Bull.Jap.Soc.sci.Fish., 22(12):760-7  
 (Biochemical studies on the fish blood.  
 IX. On the paper electrophoretic  
 analysis of serum proteins). Ni En

A study of some species as previous  
 paper.

SJH:sjh

MF

Saito, K. (1957) 571393  
Bull.Jap.Soc.sci.Fish., 22(12):768-72  
 (Biochemical studies on the fish blood.  
 X. On the seasonal variation of serum  
 protein components of cultured fish).  
Ni En

Variations in Cyprinus and Scomber  
 studied by electrophoresis and related  
 to changes in seasonal feeding pattern.

SJH:sjh

MF

Sakuda, H.M. (1957) 571396  
Comm.Fish.Rev., 19(11):4-6  
 Meat content of Pavlof Bay king crabs

Gives weight-length relation of Parali-  
thodes camtschatica.

FAO:sjh

M

Saito, K. (1957) 571394  
Bull.Jap.Soc.sci.Fish., 22(12):773-7  
 (Biochemical studies on the fish blood.  
 XI. On the serum protein components of  
 the mature and immature stage of the  
 marine elasmobranchs). Ni En

Electrophoretic study of changes  
 occurring during life of Mustelus and  
Dasyatis.

SJH:sjh

M

Sala, I. (1957) 571397  
Geophysica, Holsinki, 5(3)  
 Einige Messungen der Eisfestigkeit  
 (Some measurements on ice resistance)

Description of the method used and some  
 data on the strength of the ice.

:tl

MF

Saiz, F., M. Lopez-Benito 571395  
 and E. Anadon (1957)  
Invest.pesq., 8:29-87  
 Estudio hidrográfico de la ría de Vigo  
 (Hydrographic study of the Vigo Loch)

Study of the dynamics of the loch based  
 on hydrographical and meteorological  
 observations giving a physical and  
 climatological description of the loch,  
 an estimate of the water flow and  
 exchanges with the sea and an account  
 of the mean distribution of salinity  
 and temperature.

FAO:glk

M

Sal'nikov, N.E. (1957) 571398  
Vop.Ikhtiolog., 8:188-90

Zimovki sredizemnomorskogo malogo  
 burevestnika (Puffinus puffinus yelkonan  
Acerbi) v Chernom 'ore i sviaz' ikh a  
 raspredeleniem khamsey (Hibernation  
 of the Mediterranean small shearwater  
 (Puffinus puffinus yelkonan Acerbi)  
 in the Black Sea and its relation to  
 the distribution of anchovies)

Discussion of the distribution of this  
 bird in severe winter of 1953-54 in  
 relation to that of Engraulis encrasicolus  
ponticus P. and E. e. maeoticus P.,  
 and of Trachurus trachurus L.

FAO:tl

M

Sanchez y Sanchez, M. (1957) 571399  
J.Cons.int.Explor.Mer., 22(2):197-9  
The culture of oysters in north-western Spain

Description of culture system and results obtained with limed tiles.

GLK:sjh

MF

Sanford, F.B. (1957) 571402  
Comm.Fish.Rev., 19:1-8  
A picture study of an American whaling operation

A pictorial study of the operation of the only existing inshore whaling station in the United States located on San Francisco Bay.

HR:hr

M

Sandeman, E.J. (1957) 571400  
Progr.Rep.Atl.Cst Sta., (67):26-8  
Redfish grow slowly

Length frequency distribution in catches of Sebastes marinus, in 1953-55.

FAO:sjh

M

Sano, T. (1957) 571403  
J.Tokyo Univ.Fish., 43(1):75-9  
Haematological studies of the culture fishes in Japan. I. On the blood of eel

Chemical and morphological analysis of blood of Anguilla japonica.

FAO:sjh

MF

Sanford, F.B. (1957) 571401  
Comm.Fish.Rev., 19:16-9  
Fish-hatchery food from anchovies caught near Santa Barbara, California

A photographic report of steps in capture, transportation and processing.

HR:hr

MF

Santos Pinto, J. dos (1957) 571404  
Notas Estud.Inst.Biol.marit., 15:1-13  
Essai d'une échelle de maturation sexuelle pour le mâles de la sardine (Sardina pilchardus Walb.) basée sur l'histologie des testicules (Experimental sexual maturity scale for the males of sardine (Sardina pilchardus Walb.) based on the histology of the testicules)

A five stage scale is described corresponding to the physiological status of the gonads.

FAO:hr

M



Santos Pinto, J. dos (1957) 571405  
Trab.Miss.Biol.marit., (12-16):195-230  
 Contribuição para o estudo dos foraminí-  
 feros dos sedimentos marinhos de Angola  
 (Contribution to the study of Foramini-  
 fera of the marine sediments of Angola)

A systematic catalogue with information  
 on depths and places of collection and  
 abundance.

FAO:hr M

Sarig, S. and G. Vardina (1957) 571406  
Bamidgeh, 9(1):6-12  
 Improvements in fertilizing fish ponds

Discusses distribution of fertilizer in  
 the pond and spacing the fertilizer  
 supply in time.

WAD:tjj F

Sarojini, K.K. (1957) 571407  
Indian J.Fish., 4(1):160-207  
 Biology and fisheries of the grey mullets  
 of Bengal

Mugil parsia and M. cunnesius.  
 Distribution, raciation, length-weight  
 relation, condition, maturation and  
 spawning, larval stages, sex-ration,  
 fecundity, age and growth, migrations,  
 the fishery.

GLK:glk MF

Sasaki, S. (1957) 571408  
Bull.Hokkaido reg.Fish.Res.Lab., (16):  
 56-8

(Ecological studies on the agaroid-algae  
 in Hokkaido (I). On the germination  
 of the tetraspores in Gracilariopsis  
vermiculophylla Ohmi in lake Akkeshi,  
 Hokkaido). Ni En

Ill. account of study made 1954-6  
 showing that germination is of type  
 "Typus discalis mediatus". Description  
 of the spores.

FAO:sjh F

Sasaki, S. (1957) 571409  
Bull.Hokkaido reg.Fish.Res.Lab., (16):  
 59-62

(Ecological studies on the agaroid-algae  
 in Hokkaido (II). On the germination of  
 the tetraspores of unattached Gracilaria  
verrucosa (Huds.) Papf. in lake Akkeshi,  
 Hokkaido). Ni En

Study made from 1954 to 1956 shows  
 germination is of the same type as  
 "Typus discalis mediatus" and  
Gracilariopsis vermiculophylla;  
 tetraspores are smaller than in latter  
 sp. Ill.

FAO:sjh F

Sathpathi, N. (1957) 571410  
Nature, Lond., 179(4566):913-4  
 A direct recording instrument for size.  
 Analysis of coarse granular material

Description of a modified form of  
 Emery's sedimentation tube where the  
 successive cumulation heights of the  
 sedimentation column are recorded  
 on a photographic paper wrapped over  
 a revolving drum.

GLK:tl MF



Sathyanesan, A.G. (1957) 571411  
Nature, Lond., 180:98-9  
Parasitism in relation to the pituitary  
of Ophicephalus punctatus and Barbus  
stigma

Ligula, Schistocephalus and other  
trematodes and mixosporidia in these spp.  
and also in Cyprinus, Carassius, Rhodeus,  
Leuciscus and Gasterosteus.

GLK:sjh

F

Saunders, G.W. (1957) 571414  
Bot.Rev., 23(6):389-409  
Interrelations of dissolved organic  
matter and phytoplankton

Review of the functions of dissolved  
organic matter as nutrient, accessory  
growth factor, toxins and antibiotics  
and chelation. Notes on ecological  
implications of dissolved organic  
matter.

FAO:tl

F

Satyanarayana Rao, T.S. (1957) 571412  
Sea Frontiers, 3:143-7  
Science and the Indian Ocean

Brief note on the economic importance  
of the Indian Ocean and on past and  
current research there.

FAO:glk

M

Saunders, J.B. (1957) 571415  
Smith.misc.Coll., 134(5):16 p.  
Trochamminidae and certain Lituolidae  
(Foraminifera) from the recent  
brackish-water sediments of Trinidad,  
British West Indies

FAO

MF

Saubert, S. (1957) 571413  
S.Afr.J.Sci., 53(13):335-9  
Amino acid deamination by Nitzschia  
thermalis and Scenedesmus bijugatus

Pure cultures of Nitzschia thermalis  
and Scenedesmus bijugatus, containing  
amino acids as the only source of  
nitrogen, deaminated glycine, alanine,  
proline, glutaminic acid and aspartic  
acid, liberating up to 90 per cent  
of the nitrogen as free ammonia into  
the air.

FAO:tl

F

Scattergood, L.W. and 571416  
G.W. Coffin (1957)  
Copeia, (2):155-6  
Records of some Gulf of Maine fishes

A record of the following species:  
Carcharodon carcharios, Mugil cephalus,  
Sarda sarda, Hippocampus hudsonius,  
Naucrates ductor, Pseudopriacanthus  
altus.

HR:hr

M

<p>Schaefers, E.A. and H.C. Johnson (1957) <u>Comm.Fish.Rev.</u>, 19(1):9-25 Shrimp explorations off the Washington coast, fall 1955 and spring 1956</p> <p>Describes the operations, area explored and bottom conditions, and the gear used. Gives detailed tables of operations showing location, conditions and results.</p>	<p>571417</p>	<p>Schäperclaus, W. (1957) <u>Z.Fisch.</u>, 5:161-74 Ursache und Auswirkungen der Frühjahrs- pH-Werterhöhungen in Karpfenteichen (Origin and effects of spring increases of pH in carp ponds)</p> <p>The change of pH by plankton and its influence on growth and mortality of carps.</p>	<p>571420</p>
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HR:glk

M

FAO:tl

F

Schäperclaus, W. (1957) 571418  
Dtsch.Fisch.Ztg., 4:79-82  
Praktische Anleitung zur intraperitonealen  
Injektion von Chloronitrin bei  
zweisömrigen Karpfen (Practical  
instructions for intraperitoneal  
injection of chloronitrin to two-summer  
old carps)

Content as per title.

Schärfe, (1957) 571421  
Allg.FischwirtschaftZtg., 9(21):14-6  
Kleinecholote für die Küstenfischerei  
(Small echosounders for coastal fishery)

Short description of available small  
echosounder types and their use in  
small vessels.

FAO:tl

F

FAO:tl

M

Schäperclaus, W. (1957) 571419  
Verlag Paul Parey, 236 p.  
Grundriss der Teichwirtschaft  
(Compendium of pond culture)

Scholl, I.I. (1957) 571422  
Paper presented at the Thirty-Eighth  
Annual Meeting, Washington, D.C.,  
April 29 - May 2, 1957  
On the role of the oceans in the  
climates of the Pleistocene

F

M

Schell, I.I. (1957)  
Science, 125(3241):235  
Theory of ice ages

571423

Discussion on the recent climatic change,  
especially the warming up of Arctic and  
Atlantic Ocean.

FAO:tl

M

Schiemenz, F. and  
H. Köthke, Jr. (1957)  
Z.Fisch., 5:175-210

571426

Die Fischereiverhältnisse in der Elbe  
vor dem Bau des Wehres in Geesthacht  
(The fishing conditions in the Elbe  
before the construction of the barrage  
in Geesthacht)

Description of the migrations of fish,  
influence of the changing water level  
on fish population, propagation of fish,  
influence of pollution and the present  
fisheries praxis.

FAO:tl

F

Schelske, C. (1957) 571424  
Res.Stud.St.Teach.Coll., Emporia, 5(3)  
An ecological study of the fishes of the  
Fall and Verdigris rivers in Wilson and  
Montgomery counties, Kansas, March 1954  
to February 1955

Schiemer, E.W. and 571427  
D.W. Pritchard (1957)  
Tech.Rep., Chesapeake Bay Inst., 12:16 p.  
The Chesapeake Bay Institute conductivity-  
temperature indicator (CBI-CTI)

Description of the apparatus and its  
applicability in hydrographical  
investigations of estuarine and  
inshore waters.

F

FAO:tl

MF

Schevill, W.E. (1957) 571425  
Sci.Mon., N.Y., 85:209-40  
Follow the whale

Unfavourable critical review of book by  
Sanderson, I.T. (1956), with same title.

FAO:sjh

MF

Schindowski, E. and 571428  
F.W. Tesch (1957)  
Z.Fisch., 5:247-68  
Methodisches zur Wachstumsrückberechnung  
erläutert am Beispiel von Lucioperca  
sandra Cuv. u. Val., Perca fluviatilis L.  
und Salmo trutta fario L. (Methodology  
on the back calculation of the growth  
explained with the example of Lucioperca  
sandra Cuv. and Val., P. fluviatilis  
and S. trutta fario)

Construction of the scale-length  
correlation curves and their usefulness  
for backward computation of the growth.

FAO:tl

F

Schleicher, K.E. and 571429  
A. Bradshaw (1957)  
Coll.Repr.Wood's Hole oceanogr.Instn,  
(810)  
A conductivity bridge for measurement of  
the salinity of sea water

Describes a new instrument for use at  
sea; theory of the method; tests of  
precision and occurrency; field tests.  
Ill.

FAO:sjh

M

Schmitz, H.P. (1957) 571430  
Wasserwirtsch.Wassertech., 7:64-74  
Küstenschutz und wissenschaftliche  
Grundlagenforschung (Coastguards and  
scientific investigation)

M

Schnakenbeck, W. (1957) 571431  
Krögers Buchdruckerei, Hamburg -  
Blankenese, 470 p.  
Die deutsche Seefischerei in Nordsee und  
Nordmeer (German sea fisheries in the  
North Sea and in the Arctic Ocean)

M

Schoffman, R.J. (1957) 571432  
J.Tenn.Acad.Sci., 32(1):3-8  
Age and rate of growth of the carp in  
Reelfoot Lake, Tennessee, for 1941 and  
1956

F

Schooley, A.H. (1957) 571433  
Paper presented at the Thirty-Eighth  
Annual Meeting, Washington, D.C.,  
April 29 - May 2, 1957  
Short-fetch water wave slope probability  
distributions

M

Schuler, F. (1957) 571434  
Int.hydr.Rev., 34(2):43-6  
Profils d'echogrammes et procedé pour  
les établir (Echogram profiles and  
procedure for making them)  
  
Discussion of the performance of echo-  
sounders, of records obtained and their  
interpretation, and of factors  
influencing performance.

FAO:glk

M



Schultz, E.A. and 571435  
H.B. Simmons (1957)  
Tech.Bull.Comm.Tid.Hydr.U.S.Army, (2):28p  
Fresh water-salt water density currents,  
a major cause of siltation in estuaries

MF

Schweigger, E. (1957) 571438  
Bol.Comp.adm.Guano, 33(7):10-20  
El año 1955 - el mar durante el año 1955  
(The year 1955 - the sea during the  
year of 1955)

A hydrographic study encompassing  
analyses of temperatures and winds  
on the western coast of South America.

FAO:hr

M

Schuster, R. (1957) 571436  
Vie et Milieu, 8(1):109  
Das Kalkalgen-Trottoir and der Côte des  
Albères als Lebensraum terricoler  
Kleintiere (Terraces of calcareous  
algae on the Côte des Albères as  
biotope for small terrestrial animals)

Supplement to Schuster, R. (1956), Vie  
et Milieu, 2(7):242-57.

FAO:hr

M

Scott, G.T. and 571439  
R. De Voe (1957)  
Biol.Bull., Wood's Hole, 112:249-53  
The reversible replacement of potassium  
by rubidium in Ulva lactuca

Experimental work showing the rate at  
which rubidium ion replaces potassium,  
the level of such replacement, and the  
rate of re-accumulation of potassium.  
The disparity in the exchange kinetics  
is discussed.

FAO:tl

M

Schwartz, A. (1957) 571437  
Copeia, (2):94-107  
Variation and natural history of Plethodon  
jordani clemsonae Brimley

A study of the amount and kind of  
variation, life history, geographic  
distribution, and relations of the  
species with its adjacent member  
P. j. melaventris.

HR:hr

F

Scott, G.T. et al. (1957) 571440  
Science, 125(3239):160  
Exchange of sodium ion in Ulva lactuca

Results of experiments with Na<sup>24</sup> on the  
exchange of sodium by two different  
temperatures and some discussion on  
the process of exchange.

FAO tl

M

Scott, W.B. (1957) 571441  
Copeia, (2):160-1  
Distributional records of fishes in  
western Canada

Lists three species of cyprinids from  
southwestern Saskatchewan: Hybognathus  
hankinsoni, Chrosomus eos and Pfrittle  
neogaea and the catostomid Pantosteus  
jordani.

HR:ar

F

Searle, A.G. (1957) 571444  
Malay.Nat.J., 11(3):67-76  
An introduction to Malayan jellyfish

Taxonomic account with notes on the life  
history and distribution.

GLK:tl

M

Scottish Home Department (1957) 571442  
Freshw.Salm.Fish.Res., (15):11 p.  
Eighth Annual Report of the Supervisory  
Committee for Brown Trout Research 1955-  
1956

Covers period 11/55-10/56. Describes  
staff, laboratory research (under  
headings: fish investigations; bottom  
fauna studies; botanical work; chemical  
work) and lists publications.

FiB:sjh

F

Séguin, R.L. (1957) 571445  
Canad.Fish Cult., 20:29-37  
Management, fishing results and growth  
of speckled trout (Salvelinus fontinalis)  
in Baldwin Pond, Stanstead County, Que.

Describes the stocking and subsequent  
results following a poisoning of  
undesirable fishes.

FAO:wad

F

Seaman, E.A. (1957) 571443  
Progr.Fish Cult., 19(1):47-8  
Who wants a biologist? Two years of  
private consulting service

Discussion of a new field in the U.S. --  
based on the author's own experience  
especially in the field of hydrobiology  
including pollution and fishery problems.

WAD:wad

F

Selleck, D.M. and C.M. Hart (1957) 571446  
Calif.Fish Game, 43:309-16  
Calculating the percentage of kill  
from sex and age ratios

Development of this theoretical method  
originated by G.H. Kolker (1940).

SJH:sjh

F

Seoane Camba, J. (1957) 571447  
Invest.pesq., 8:15-28  
Algas superiores de las rías bajas  
gallegas (Higher algae of  
Galicia lochs)

A list of 231 seaweeds identified in  
the most southern lochs of N.W. Spain.  
Previous records have been collected  
together with recent observations.  
35 species are new records.

FAO:glk

M

Setlík, I. (1957) 571450  
Biochim.biophys.Acta, 24:434-5  
Periodic phenomena in photosynthesis as  
reflected by oxygen exchange of blue-  
green algae

Demonstration that periodic phenomena  
are encountered in the photosynthetic  
exchange of oxygen. They are related  
with light intensity and with  
temperature, and are observed under  
both aerobic and anaerobic conditions.

FAO:glk

F

Sergeant, D.E. and 571448  
H.D. Fisher (1957)  
J.Fish.Res.Bd Canada, 14(1):83-115  
The smaller cetacea of eastern Canadian  
waters

An account is given of the known records,  
distribution and migrations of the  
smaller odontocete whales occurring in  
eastern Canadian waters, with  
measurements of specimens obtained of  
the rarer species. The distribution of  
the abundant pilot whale Globiocephala  
melaena (Traill) has been studied in  
most detail.

GLK:glk

M

Seume, F.W. (1957) 571451  
Anz.Schädlingsk., 30:25-7  
The rearing of Daphnia magna

A historical review and description of  
modern methods.

Servais, F. (1957) 571449  
Résult.sci.Explor.hydrobiol.Tanganika,  
2(3):311 p.  
Etude théorique des oscillations libres  
(seiches) du lac Tanganika  
(Theoretical study of the free  
oscillations in Lake Tanganyika)

Study of longitudinal and transversal  
seiches of L.Tanganyika and L. Gonneva  
(including self-seiches, edge-waves and  
bank seiches). Most of the waves  
theories are reproduced in full and  
tested.

Shalowitz, A.L. (1957) 571452  
Sci.Mon., N.Y., 84:290-301  
Nautical charting (1807-1957)

:tl

F

FAO:sjh

MF

Shannon, F.A. (1957) 571453  
Copeia, (2):145-6  
Further comments upon the western range  
of Scaphiopus bombifrons

Critical review of original article by  
V. Walters, Copeia, 1955, (3):252-3.

HR:efa

F

Shapiro, J. (1957) 571454  
Limnol.Oceanogr., 2:161-79  
Chemical and biological studies on the  
yellow organic acids of lake water

Study of the chemical composition and  
optical spectral properties and  
biological decomposition of humic  
substances in Lower Lisnloy Pond,  
Connecticut. The influence of different  
concentration of these humic substances  
on plankton organisms was tested.

HR:tl

F

Shavit, M. (1957) 571455  
Fish.Bull., Haifa, (14):3  
(Around the fisheries of Israel). Iw

SJH

MF

Shaw, B.L. and 571456  
H.I. Battle (1957)  
Canad.J.Res. (Zool.), 35(3):325-47  
The gross and microscopic anatomy of  
the digestive tract of the oyster  
Crassostrea virginica (Gmelin)

The gross and microscopic anatomy of  
the digestive tract of Crassostrea  
virginica is described. Anatomical  
relationships are compared with Ostrea  
chilensis, Ostrea edulis, and Gryphea  
angulata.

FAO:hr

M

Shaw, T.I. and 571457  
L.H.N. Cooper (1957)  
Nature, Lond., 180:250  
State of iodine in sea water

Hypothesis on the state of iodine in  
sea water as hypiodous acid and  
iodine.

GLK:tl

M

Shaw, W.H.R. and 571458  
B. Grushkin (1957)  
Arch.Biochem., 67:447-52  
The toxicity of metal ions to aquatic  
organisms

FAO

MF



<p>Sheely, M.J. and R. Halley (1957)  <u>J.acoust.Soc.Amer.</u>, 29:464-9  Measurement of the attenuation of low-frequency underwater sound</p>	571459	<p>Shibuya, S. and S. Ouchi  <u>Nature, Lond.</u>, 180:549-50  Isolation of 2-aminoethanesulphinic acid from a mollusc</p> <p>Description of the technique of isolating and identifying the substance from tissues of <u>Septifer</u> (<u>Mytilisepta</u>) <u>virgatus</u> (Wiegmann).</p>	571462
	M	GLK:glk	MF
<p>Shelbourne, J.E. (1957)  <u>Fish.Invest.</u>, Lond., Ser.2, 21(2):27 p.  The 1951 oyster stock in the rivers Crouch and Roach, Essex, and the influence of water currents and scour on its distribution: with an account of comparative dredging experiments</p> <p>Content as per title.</p>	571460	<p>Shimizu, Y. (1957)  <u>Rep.Nankai reg.Fish.Res.Lab.</u>, 6:18-24  (Biochemical studies on the growth and maturation of fish bodies. III. Some investigations on the vitamin B12 contents of fish bodies). <u>Ni</u> En</p> <p>Account of investigations on the relationship between growth and maturation of fish and vitamin B12 contents of important organs of <u>Auxis tapeinosoma</u>, <u>Seriola quinqueradiata</u> and <u>Germo germo</u>.</p>	571463
FAO:efa	MF	FAO:efa	M
<p>Shepard, F.P. (1957)  <u>Sea Frontiers</u>, 3:171-9  Strange canyons on the sea floor</p> <p>Description of canyons in different parts of the world and of recent underwater photographic and other research providing more accurate description of them and discussion of the theories of their origin and significance.</p>	571461	<p>Shimizu, Y. (1957)  <u>Rep.Nankai reg.Fish.Res.Lab.</u>, 6:25-8  (Biochemical studies on the growth and maturation of fish bodies. IV. The vitamin B2 contents in the livers and the ovaries of yellowfin tuna, <u>Nothunnus macropterus</u> (Temminck and Schlegel)). <u>Ni</u> En</p> <p>Content as per title.</p>	571464
FAO:tl	M	FAO:efa	M

Shinners, W.W. and 571465  
 J.A. Shirley (1957)  
 Paper presented at the Thirty-Eighth ..  
Annual Meeting, Washington, D.C.,  
April 29 - May 2, 1957  
 Recent developments in marine  
 instruments and observations

Shkorbatov, G.L. (1957) 571468  
Zool.Zh., 36(2):230-6  
 Ob eksperimental'nykh obosnovaniakh  
 akklimatizatsii ryb (Experimental  
 basis of fish acclimatization)  
 Discussion on the physiological  
 functions affecting the acclimatization  
 and the influence of rearing conditions  
 on the acclimatization of grown fish.

GLK

MF

FAO:tl

F

Shirai, K., M. Saiki 571466  
 and S. Ohno (1957)  
Bull.Jap.Soc.sci.Fish., 22:651-3  
 (Studies on the radioelement in the  
 contaminating radioactive fish. III. On  
 skipjacks caught at the Pacific Ocean  
 in 1956. (Part 2). On the presence of  
 Cd<sup>113m</sup>). Ni En

See 571388. Part 2 deals with cadmium  
 (Cd<sup>113m</sup>) distribution.

Shuleikin, V.V. (1957) 571469  
C.R.Acad.Sci.U.R.S.S., 115(5):915-8  
 Profil' vetrovykh voln i ego zapis' na  
 pridonnykh volnografakh (Wind wave  
 profile and its record by bottom-  
 wave recorders)

SJH:sjh

M

FAO

M

Shirkova, A.P. (1957) 571467  
Zool.Zh., 36(6):951-3  
 O biologicheskoi neodnorodnosti chudskogo  
 siga v sviazi s akklimatizatsiei ego v  
 drugih vodoemakh (On the biological  
 heterogeneity of Coregonus lavaretus  
marcenoides Poljakov in connection with  
 its introduction into other water  
 reservoirs). En

Account of investigations on the  
 biological homogeneity of whitefish shoals  
 in Lake Peipus. States that supposition  
 found in literature concerning the  
 presence of 2 forms is not justified.

FAO:efa

F

Shul'man, G.E. et al. (1957) 571470  
Vop.Ikhtiol., 8:77-80  
 Osobennosti gazovogo obmena bychkov  
 Azovskogo moria (Neogobius melanostomus  
 i N. syrman) v sviazi s usloviiami  
 obitaniia (Features of the gaseous  
 exchange in the goby of the Azov Sea  
 (Neogobius melanostomus and N. syrman)  
 in connection with the living conditions)

Discussion of experimental work on O<sub>2</sub>  
 consumption, the minimal O<sub>2</sub> concentration  
 in the water for which respiratory  
 movement is maintained, the character  
 and frequency of opercular movement,  
 relation of these features and  
 anaerobic conditions and H<sub>2</sub>S.

FAO:glk

M

Shumway, G. (1957)  
Deep-Sea Res., 4(4):250-3  
Carnegie Ridge bathymetry

571471

Description of the bathymetry with a  
bathymetric map of the area.

Siller, W. (1957)  
Öst.Fisch., 10(6/7):90-5

571474

Beobachtungen eines Sportanglers über  
das Verhalten kranker und abnormaler  
Fische (Observations of a sport  
angler on the behaviour of sick and  
abnormal fishes)

Some observations on fishes infected  
with parasites and fishes with  
malformation of vertebrae.

GLK:tl

M

FAO:tl

F

Siogrist, M. and  
M.C. Grier (1957)  
Geological Society of America, 768 p.  
Bibliography and index of geology  
exclusive of North America - Vol. 20

571472

Contains also references on submarine  
geology.

Siltamaa, E. and  
M. Vanhanen (1957)  
Otava, Helsinki 1957, 184 p.  
Kalavosiä kohentamaan (Improvement  
of fishery waters)

571475

:tl

M

FAO

F

Silas, E.G. (1957)  
Copeia, (1):61-2  
The Ceylonese cyprinid genus Eustira  
Günther considered a synonym of Danio  
Hamilton

571473

A brief systematic analysis of characters  
of two nominal genera and proposition to  
consider Eustira a synonym of Danio.

Silva, E. do Sousa (1957) 571476  
Trab.Miss.Biol.marít., (12-16):109-91  
Dinoflagelados do plancton marinho de  
Angola (Dinoflagellates of the  
marine plankton of Angola)

A catalogue of more of 100 species with  
notes on morphological variations,  
sizes and distribution for many of them.  
A chart of seasonal distribution with  
data on salinity and temperature is  
given.

HR:ofa

F

FAO:hr

M



Sinclair, H.M. (1957) 571477  
In "The biology of ageing", by Yapp,  
W.B. and G.H. Bourne (Ed.), Symp.Inst.  
Biol., (6):101-13  
Nutrition and ageing

Lists spp. for which it has been  
observed that shortage of food early  
in life delays maturity and prolongs  
life. Mentions Daphnia, Patella vulgata  
and trout.

GLK:sjh

MF

Sivalingam, S. and 571480  
J.C. Medcof (1957)  
Bull.Dep.Fish., Ceylon, (6):23 p.  
General features and productivity of  
the Wedge Bank trawl fishery

Description of the physical features  
of Wedge Bank, trawling operations,  
general features of catch and  
variations in catch per unit effort.  
A comparison is made of the productivity  
of Wedge Bank with that of other fishing  
areas.

GLK:tl

M

Sinclair, J. (1957) 571478  
Official Rep.House of Commons Debates,  
Ottawa, 12 p.  
Fish and power

Speech made by Minister of Fisheries on  
February 28, 1957, reviewing the  
situation in Canada with regard to the  
International Salmon Commission and the  
construction of new dams.

GLK:sjh

MF

Sjöblom, V. (1957) 571481  
FiskTidskr.Finl., 64(3):77-81  
Silakan katoamisesta solkämmerellä (On  
the disappearance of herring from central  
Gulf of Bothnia)

Data on growth, age and length of herring,  
strength of year-classes and explanation  
on the causes of weak yearclasses.

FAO:tl

M

Singer, B. (1957) 571479  
London, Secker and Warburg, 232 p.  
Living silver - An impression of the  
British fishing industry

First novel by a young fisheries biologist  
containing detailed and accurate account  
of Scottish marine fishing industries and  
methods, and the behaviour and other  
biological characteristics of the species  
taken.

FAO:sjh

M

Sjöblom, V. (1957) 571482  
FiskTidskr.Finl., 64(5):143-5  
Silakkaverkon silmäsuuruuden vaikutuksesta  
saaliin kokoonpanoon (The influence  
of mesh size of herring gill net on the  
size composition of catch)

Data on size composition of catch with  
nets with different mesh size on the  
same fishing ground and time.

FAO:tl

M



Sjöblom, V. (1957) 571483  
FiskTidskr.Finl., 64(4):110-3  
 Turun saariston talvi- ja avovesisilakan  
 vuoden aikaisista vaelluksista  
 (Seasonal migrations of the winter and  
 offshore herring in the archipelago of  
 Turku)

Preliminary note on the size composition  
 of catch and strength of year classes.  
 Notes on the seasonal migration of the  
 stock.

FAO:tl

M

Slinn, D.J. (1957) 571486  
Rep.Mar.biol.Sta.Pt Erin, 69:29-33  
 Phosphate and oxygen in sea water off  
 Port Erin during the years 1955 and  
 1956

Analyses of weekly samples, 1955 and  
 1956, 3 miles N. 65° W. of Port Erin,  
 Isle of Man. Incl. temperatures.

FAO:sjh

M

Slater, J.V. (1957) 571484  
Biol.Bull.Wood's Hole, 112(3):390-9  
 Radiocobalt accumulation in Tetrahymena

Experiments were designed to study the  
 accumulation of cobalt in protozoans  
 during growth. This study included the  
 growth phase, the influence of deficient  
 medium on exchange, the influence of  
 population density on uptake per animal,  
 and the effect of ion concentration on  
 uptake.

FAO:tl

F

Slobodkin, L.B. (1957) 571487  
Proc.nat.Acad.Sci., Wash., 43:780-2  
 A laboratory study of the effect of  
 removal of newborn animals from a  
 population

A constant proportion of newborn are  
 removed from self-regulating populations  
 of Daphnia; population size and yield  
 are predictable from simple equations  
 requiring only knowledge of size of  
 normal population and one conversion  
 constant. When adult animals are  
 removed, destroying simple food  
 dependence of population, these  
 equations are no longer applicable.

GLK:sjh

F

Slinn, D.J. (1957) 571485  
Nature, Lond., 179:271-2  
Erpocotyle abbreviata (Olsen, (1876))  
 Price, 1942, a monogenetic trematode  
 new to British waters

Three specimens recorded.

GLK:jae

M

Small, J. (1957) 571488  
Baillière, Tindall and Cox, 260 p.  
 Modern aspects of pH

GLK

MF

Smed, J. (1957) 571489  
Ann.biol.Copenhagen, (12):10-1  
Monthly anomalies of the surface  
temperature in areas of the northern  
North Atlantic in 1955

Part of "Distant Northern Seas -  
Environment - Hydrography".

GLK

M

Smith, F.G. Walton and 571492  
H. Chapin (1957)  
West.Fish., 54(6):34-43, 64-6  
There's a future for fish farming

A review of salt-water fish farming  
with indications of its future  
possibilities.

FAO:hr

MF

Smith, F.G. Walton (1957) 571490  
Sea Frontiers, 3:162-70  
The flying barnacle

Essay on the myth associated with Branta  
leucopsis.

FAO:glk

M

Smith, F.G. Walton and 571493  
H. Chapin (1957)  
West.Fish., 55(1):42-7  
There's a future for fish farming

A review of salt-water fish farming  
with indications of its future  
possibilities.

FAO:hr

MF

Smith, F.G. Walton (1957) 571491  
Sea Frontiers, 3:87-93  
Sea snakes are real

A popular review of knowledge about the  
occurrence and habits of the Hydrophidae.

HR:sjh

M

Smith, J.L.B. (1957) 571494  
Ichthyol.Bull., (4):49-69  
The fishes of the family Scorpaenidae in  
the western Indian Ocean - Part I. The  
sub-family Scorpaenidae

Description of the sub-family, genera and  
species for which analytical keys are  
given. As far as possible photographs  
of typical specimens are reproduced.

FAO:hr

M

Smith, J.L.B. (1957) 571495  
Ichthyol.Bull., (5):75-87

The fishes of the family Scorpaenidae in the western Indian Ocean - Part II. The subfamilies Pteroinae, Apistinae, Setarchinae and Sebastinae

Describes the four subfamilies and their respective genera and species for which identification keys are given.

FAO:hr

M

Smith, J.L.B. (1957) 571498  
Ichthyol.Bull., (6):96 p.

Sharks of the genus Isurus Rafinesque, 1810

Gives a key to the genera of the family Isuridae, describes the genus Isurus and its species for which a key is also given.

FAO:hr

M

Smith, J.L.B. (1957) 571496  
Ichthyol.Bull., (8):117-20

The labrid fishes of the subgenus Julis Cuvier, 1814 (in Coris Lacepede, 1802) from South and East Africa

Key to the species and their description.

FAO:hr

M

Smith, J.L.B. (1957) 571499  
S.Afr.J.Sci., 53(14):353-9

A preliminary survey of the Scylliogaleid dogfishes of South Africa

A preliminary survey which shows five endemic species Scylliogaleus queketti, Mustelus natalensis, M. nigropunctatus, M. mogalopterus, M. palumbos n. sp., and one from the Indo-Pacific, Mustelus manazo, to be present in South Africa.

FAO:hr

M

Smith, J.L.B. (1957) 571497  
Ichthyol.Bull., (7):99-114

List of the fishes of the family Labridae in the Western Indian Ocean with new records and five new species

Key to genera; illustrations (some colored) of selected spp.; lists spp. under each genus, with synonyms and distributional notes; taxonomic description of type species; bibliography of original descriptions; list of doubtful records; index of generic and trivial names.

FAO:sjl

M

Smith, M.W. (1957) 571500  
Canad.Fish Cult., 20:1-6

Comparative survival and growth of tagged and untagged brook trout

Describes effect of jaw tags during both summer and winter on Salvelinus fontinalis held in experimental ponds.

FAO:wad

F

Smith, M.W. (1957) 571501  
Canad. Fish. Cult., 20:39-44  
Lea's hydrostatic tag on brook trout and  
Atlantic salmon smolts

Experiments with Salvolinus fontinalis  
and Salmo salar at Ellerslie Brook,  
Prince Edward Island, Canada, including  
a comparison with results obtained using  
jaw tags on the trout.

FAO:wad

F

Smith, S.H. (1957) 571504  
J. Fish. Res. Bd. Can., 14:599-604  
Evolution and distribution of the  
corogonids

A discussion of knowledge on the  
morphological and physiological  
plasticity of this group.

GLK:glk

F

Smith, R.T. and 571502  
E. Quistorff (1957)  
Fish. Res. Pap. Wash. Dep. Fish., 2(1):73-6  
Survival capacity of spermatozoa of  
the chinook salmon and steelhead trout

Viability of stored sperm of Oncorhynchus tshawytscha and Salmo gairdnerii  
gairdnerii.

FAO:sjh

MF

Smith, S.H. (1957) 571505  
Fish. Bull., U.S., (109):87-138  
Life history of lake herring of Green  
Bay, Lake Michigan

Account of investigations of the biology  
of Leucichthys artedi (Le Sueur), with  
special reference to age composition;  
growth-length-weight relation;  
reproduction and sex composition, and  
distribution and movements.

FAO:efa

F

Smith, S.B. (1957) 571503  
Canad. Fish. Cult., 20:7-12  
Survival and growth of wild and hatchery  
rainbow trout (Salmo gairdnerii) in  
Corbett Lake, British Columbia

Describes a marking experiment using  
wild stock (reared in natural ponds)  
and a stock with complete hatchery  
conditioning.

FAO:wad

F

Smith, W.C. (1957) 571506  
Rep. Mar. Biol. Sta. Pt. Erin., 69:21-8  
Gonad condition, age and size of Manx  
horrings, 1945-53, and comparison with  
earlier years

Records of Clupea harengus samples,  
for data 1945-53 (for earlier years  
see same author (1948); for later  
years Bowers, A.B. (1955, 1956, 1957)).

FAO:sjh

M



Smogorzhevskii, L.A. (1957) 571507  
Zool.Zh., 36(6):953-4  
 Materialy k voprosu o znachenii  
 chernozoboi gagary (Gavia arctica) v  
 rybnom khoziaistve (Contribution to  
 the role of Gavia arctica L. in  
 fisheries management)

Analysis of the stomach and oesophagus  
 contents of 67 birds taken in the  
 Chernigov, Kiev and Cherkassk districts  
 of the UkrSSR in September-November  
 1951-1955.

FAO:glk

F

Snieszko, S.F. (1957) 571510  
Progr.Fish Cult., 19(2):81-4  
 Use of antibiotics in the diet of  
 salmonid fishes

A summary in tabular form of the  
 effects of enriching the diet of fishes  
 with antibiotics based upon: Müller,  
 Wolfgang (1956), "Über die Perspektiven  
 der Antibiotika-Verfütterung in der  
 Teichwirtschaft." Deutsche Fischerei-  
Zeitung, 3(4):110-5; and a compilation  
 by the author.

WAD:wad

F

Smyly, W.J.P. (1957) 571508  
Hydrobiologia, 11(1):59-72  
 Distribution and seasonal abundance of  
 Entomostraca in moorland ponds near  
 Windermere

Methods and results of a study, 1951-53,  
 made in open waters and wood beds.

FAO:wad

F

Snodgrass, F. and 571511  
 W.H. Munk (1957)  
 Paper presented at the Thirty-Eighth  
Annual Meeting, Washington, D.C.,  
April 29 - May 2, 1957

Off-shore recording of ocean waves in  
 the band 1 to 100 cycles per kilosecond

M

Smyly, W.J.P. (1957) 571509  
Proc.zool.Soc.Lond., 128(3):431-53  
 The life-history of the bullhead or  
 miller's thumb (Cottus gobio L.)

Distribution; sampling methods; sex  
 identification; behaviour and habits;  
 reproduction; growth in length and  
 weight; feeding and food; parasites  
 and predators; in R. Brathay and  
 L. Windermere, England.

FiB:glk

F

Society of Chemical Industry. 571512  
 London (1957)  
New York, Macmillan, 157 p.  
 Disposal of industrial waste materials.  
 Papers read at the Conference at  
 Sheffield University, 17th-19th April,  
 1956 with the discussions that followed

MF

Solomon, A.D. (1957) 571513  
Conn. Fish. Rev., 19(12):47-8  
West coast albacore fishermen adapt  
unique method for relaying information  
by ship's radio

FAO

M

Sorokin, C. (1957) 571516  
Physiol. Plant., 10(1):659-66  
Changes in photosynthetic activity in  
the course of cell development in  
Chlorella

Cells of the high-temperature strain  
of C. pyrenoidosa were synchronized  
in their development by intermittent  
light: dark illumination. The rate of  
photosynthesis, as it changes in the  
course of cell development, was studied  
with the manometric technique and  
compared with the rate of the increase  
in cell volume, dry weight, chlorophyll  
content, and respiratory activity.

FAO:tl

F

Solom, P. (1957) 571514  
Konkylien, 2(1):9-13  
Klimaendringen og fiskot (Climatic  
changes and fisheries)

Popular description of the influence of  
climatic changes in North Atlantic on  
fisheries, with special reference to  
the cod fishery in West Greenland waters.

FAO:tl

M

Soule, F.M. and 571517  
J.E. Murray (1957)  
Bull. U.S. Cst Guard, (41):59-114  
Physical oceanography of the Grand Banks  
and the Labrador Sea in 1955

Report 1955 cruises of USCGC EVERGREEN -  
Station lists and tabulated data-  
temperature, salinity, phosphorus;  
charts and profile.

:sjh

M

Solomon, M.E. (1957) 571515  
Ann. Rev. Entomol., 2:121-42  
Dynamics of insect populations

A general review which considers  
processes common to all animal populations,  
with particular reference to the density-  
dependence of controlling factors.

GLK:sjh

F

Southgate, B.A. (1957) 571518  
Challenger Soc., 3(9):31  
The Thames estuary and its pollution -  
I. An outline of the problem

Abstr. of paper read at Joint Meeting  
of the Water Pollution Research  
Laboratory, Stevenage; and Zoological  
Society of London, Regent's Park,  
London. 24th and 25th January, 1957.  
Notes on investigations to predict  
quantitative effects of making  
alterations in some of the factors  
influencing pollution.

SJH:efa

MF

Southward, E.C. (1957) 571519  
J.Mar.biol.Ass.U.K., 36(1):49-75

The distribution of polychaeta in off-shore deposits in the Irish Sea

It was found that, although some species were widely distributed, each bottom deposit had a typical fauna, and that where the deposits graded into one another the polychaete fauna was also mixed. The distribution of each species appears to depend mainly on its mode of life and feeding habits.

HR:hr

M

Spear, H.S. and 571522  
J.B. Glude (1957)

Fish.Bull., U.S., 57(114):279-92  
Effects of environment and heredity on growth of the soft clam (Mya arenaria)

Reports results of transplantation experiments between various parts of Sagadahoc Bay, Georgetown Island, Maine, U.S.A., showing dominant effect of environment in growth of clams initially about 2-3 cm long for one year.

SJH:sjh

M

Sparks, A.K. (1957) 571520  
Dull.Mar.Sci.Gulf Caribb., 7(3):255-65  
Some digenetic trematodes of marine fishes of the Bahama Islands

Twenty-three species of trematodes were identified, 16 new host records were established, and a new record for the Atlantic Ocean of a species described from the Pacific Coast of California was cited.

FAO:glk

M

Spencer, C.P. (1957) 571523  
Challenger Soc., 3(9):21  
The oxidation of ammonia in the sea

Abstr. of paper read at Joint Meeting of the University College of North Wales, Bangor 2nd, 3rd and 4th July, 1956. Reports comparison of pattern of ammonia oxidation in open ocean and inshore water masses.

SJH:efa

M

Sparks, A.K. and 571521  
J.G. Mackin (1957)  
Tox.J.Sci., 9:475-6  
A larval trypanorhynchid cestode from commercial shrimp

A note on occurrence of Eutetrarhynchus in Peneus setiferus (L.) from Louisiana waters, 1957, with comment on previous observations of cestodes of this family in marine animals.

FAO:sjh

M

Spencer, C.P. (1957) 571524  
J.gen.Microbiol. (Symp.on plankton), 16:282-5

Utilisation of trace elements by marine unicellular algae

Description of some recent results obtained from the investigation of ethylenediamine tetra-acetic acid on the growth of marine unicellular algae and possible implications of the results on various aspects of trace elements utilization.

FiB:tl

M



Spencer, R.S. (Comp.) (1957) 571525  
Oceanogr.Sta.List, 29:93 p.  
Estuarine hydrological investigations in  
eastern and south-western Australia, 1955  
Tabulated oceanographic data.

GLK:tl

MF

Spencer, R.S. (Comp.) (1957) 571526  
Oceanogr.Sta.List, 32:170 p.  
Estuarine hydrological investigations  
in eastern and south-western Australia,  
1956

Tabulated data: Cl<sup>o</sup>/oo, O<sub>2</sub>, pH, PO<sub>4</sub>-P  
and NO<sub>3</sub>-N.

GLK:tl

M

Spenser, E. (1957) 571527  
Research, Lond., 10(3):79  
River pollution

Editorial comment on "The use of town's  
waste in agriculture" - Report of the  
Natural Resources (Technical) Committee  
London: H.M.S.O., 1954.

FAO:sjh

F

Springer, S. (1957) 571528  
Ecology, 38:166-71  
Some observations on the behavior of  
schools of fishes in the Gulf of Mexico  
and adjacent waters

Describes the circumstances and  
characteristics of schooling behavior  
of Jonkinsia lamprotaenia Goose,  
Opisthonema aglinum (Le Sueur),  
Decapterus punctatus (Agassiz), Sardinella  
anchovia (C. and V.), Mugil cephalus Linn.,  
Rhincodon typus, Thunnus atlanticus  
(Lisson.), and Stenella plagiodon.

FAO:glk

M

Springer, S. and 571529  
J.R. Thompson (1957)  
Copeia, (2):160  
Night sharks, Hypoprion, from the Gulf of  
Mexico and the Straits of Florida

Reports and describes Hypoprion signatus  
(Poey), the first of the genus and  
sp. recorded.

HR:efa

M

Spurway, H. (1957) 571530  
Nature, Lond., 180:1248-51  
Hermaphroditism with self-fertilization,  
and the monthly extrusion of unfertilized  
eggs, in the viviparous fish Lobistes  
reticulatus

Account of observations on two independent  
phenomena: 1) functional hermaphroditism  
resulting in self-fertilization in a fish  
and 18 of her descendants; 2) extrusions  
of groups of unfertilized oocytes into  
surrounding water.

GLK:efa

F



Squires, H.J. (1957) 571531  
Canad.J.Res. (Zool.), 35(3):463-94  
Decapod Crustacea of the CALANUS  
expeditions in Ungava Bay, 1947 to 1950

Systematics of each species is treated under occurrence in Ungava Bay, world distribution and taxonomy. Maturities with respect to size when first mature, egg size, and time of hatching and spawning are discussed.

FAO:hr

M

Squires, H.J. (1957) 571532  
Progr.Rep.Atl.Cst Sta., (67):31-3  
Cod eggs and herring larvae in late September an indication of fall spawning in the Gulf of St. Lawrence

Report of hydrographic cruise of CNAV  
SACKVILLE, 18/9 - 18/10/1955.

FAO:sjh

M

Sreenivasan, A. (1957) 571533  
Curr.Sci., 26(12):392-3  
Nitrate-reducing bacteria from marine environment

Notes on the abundance of nitrate-reducing species among other marine bacteria.

FAO:tl

M

Starr, T.J. and M.E. Jones (1957) 571534  
Limnol.Oceanogr., 2(1):33-6  
The effect of copper on the growth of bacteria isolated from marine environments

Reports the effect of increasing copper concentrations on the growth of 145 different cultures of marine bacteria and compares this with effect of this substance on Gymnodinium brevis with a view to possible use of this substance in controlling G. brevis.

HR:glk

M

Stauffer, R.C. (1957) 571535  
Quart.Rev.Biol., 32(2):138-44  
Haeckel, Darwin and ecology

Includes account of controversing between E. Haeckel and V. Henson concerning marine plankton sampling and distribution.

FAO:sjh

M

Stazione Zoologica di Napoli (1957) 571536  
Fauna e Flora del Golfo di Napoli, 580 p.  
Uova, larve e stadi giovanili di teleostei (Eggs, larvae and juvenile stages of teleosts)

Steele, J.H. (1957) 571537  
J.Cons.int.Explor.Mer., 22(2):152-62  
The role of lateral eddy diffusion in  
the northern North Sea

Interpretation of hydrography with  
reference to seasonal events, the Baltic  
outflow and turbulence spectrum.

FiB:sjh

M

Steinitz, H. and 571540  
A. Ben-Tuvia (1957)  
Bull.Res.Coun.Israel, 6B(3-4):176-88  
The hybrid of Barbus longiceps C.V. and  
Varicorhinus damscinus C.V. (Cyprinidae,  
Teleostei)

Comparison of typical specimens of those  
spp. with the intermediate form found  
in Israeli lakes, verified by artificial  
cross fertilization.

FAO:sjh

F

Steemann Nielsen, E. (1957) 571538  
Physiol.Plant., 10(5):1009-20  
The chlorophyll content and the light  
utilization in communities of plankton  
algae and terrestrial higher plants

Theoretical comparison of the maximum  
rates of production per surface area in  
the aquatic and terrestrial plant  
communities, with emphasis on the  
questions of light utilization.

FAO:tl

MF

Stephens, G.C. (1957) 571541  
Physiol.Zoöl., 30(1):55-69  
Influence of temperature fluctuations  
on the diurnal melanophore rhythm of  
the fiddler crab Uca

Results of experiments showing that the  
timing of the diurnal melanophore rhythm  
of U. pugnax can be shifted with respect  
to the solar day-night cycle by exposing  
animals maintained in darkness to low  
temperatures; the conditions required  
in this temperature change with respect  
to level and duration are reported.

FAO:glk

M

Stefan, G. et al. (1957) 571539  
Bul.Inst.Cerc.piscic.Roman., 16(2):46-52  
Reproducerea artificiala a cleanului si  
mrenei la Manastur-Cluj (Artificial  
propagation of Leuciscus cephalus and  
Barbus barbus at Manastur-Cluj).  
Ru Fr

At a time in captivity the sexual  
products deteriorate. Injections of  
hypophysial extract are only effective  
in the Leuciscus. Incubation of eggs;  
supplementary feeding; infestation with  
Saprolegnia.

FAO:sjh

F

Stephenson, W. and 571542  
E.M. Grant (1957)  
Ichthyol.Notes, 1:73-116  
Experiments upon impounded callop or  
yellowbelly (Plectroplites ambiguus  
(Richardson)) at Somerset Dam

Description of the ponds and the methods  
used in an attempt to determine its  
suitability for stocking or for pond  
culture. Analysis of appetite  
preferences; determination of saturation  
feeding and analysis of the factors  
affecting it.

GLK:glk

F

Stern, T. (1957) 571543  
Fish.News, (2302):6  
Polluted mussels simply cleansed

Gives brief description of a simple  
system of mussel purification in tanks.

FAO:efa

M

Stiles, W. (1957) 571546  
Sci.Progr., 45:297-307  
Recent advances in science: plant  
physiology

MF

Stickel, L.F. (1957) 571544  
Wash., U.S.Govt Print.Off., 321 p.  
Wildlife abstracts, 1952-55. A  
bibliography and index of the abstracts  
of Wildlife review, numbers 67-83

F

Stokke, K. (1957) 571547  
Nytt Mag.Bot., 5:101-11  
The red alga Gracilaria verrucosa in  
Norway

Distribution, ecology, observations on  
morphology and reproduction.

FAO:tl

M

Stickney, A.P. and 571545  
L.D. Stringer (1957)  
Ecology, 38:111-22  
A study of the invertebrate bottom  
fauna of Greenwich Bay, Rhode Island

Describes the area. Recognizes and  
describes principal communities and  
discusses their characteristics with  
respect to the distribution and  
production of Venus.

FAO:glk

M

Stommel, H. (1957) 571548  
Bull.Mar.Sci.Gulf Caribb., 7(3):252-4  
Florida Straits transports, 1952-1956

Table of 24-hour averages of Florida  
Straits transports in millions of cubic  
metres per second, measured over four  
years by continuous measurements (over  
week-ends) of the potential difference  
between Key West and Havana.

FAO:glk

M

Stommel, H. (1957) <u>Deep-Sea Res.</u> , 4(3):149-84 A survey of ocean current theory	571549	Strahan, R. (1957) <u>Copeia</u> , (2):146-7 The effect of salinity on the survival of larvae of <u>Bufo melanostictus</u> Schneider	571552
Description and comparison of different theories. Isolation of the basic physical ideas in the theories and their diagrammatic presentation.		Describes experiment on the extent of ability of sp. normally found in fresh water to withstand brackish water.	

GLK:tl	M	HR:efa	F
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Stommel, H. and G. Veronis (1957) <u>Tellus</u> , 9(3):401-7 Steady convective motion in a horizontal layer of fluid heated uniformly from above and cooled nonuniformly from below	571550	Strakhov, V.A. (1957) <u>Fish.Ind.</u> , Moscow, 33(1):87-92 Ispol'zovanie elektricheskikh polei v rybozagraditel'nykh ustroistvakh (Using electric fields in fish separation arrangements)	571553
A gravitationally stable fluid layer is heated nonuniformly (sinusoidally) at the bottom (or top) and a thermal convection regime is established. Examples are worked out for cases without rotation, with uniform rotation, and with nonuniform rotation (betaplane).			

FAO:tl	M	FAC	MF
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Storr, J.F. (1957) <u>Educ.Ser.Fla Bd Conserv.</u> , (9):29 p. The sponge industry of Florida	571551	Strasburg, D.W. (1957) <u>Copeia</u> , (1):58-60 Notes on the respiration of small <u>Remora remora</u>	571554
Revision of original 1949 publication under same title. Summary of biology of porifera; fishing method; commercial production and value; history of industry effect of oceanographic factors; potential cultivation; marketing problems; research programmes.		Account of observation on the respiratory behaviour of the sp.	

FAO:sjh	M	HR:efa	M
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Strasburg, D.W. and 571555  
R.W. Hiatt (1957)  
Pacif.Sci., 11(1):133-4  
Sexual dimorphism in the labrid fish  
genus Gomphosus

Description of specimens and discussion  
of the taxonomic significance of the  
finding.

GLK:glk

M

Strøm, K. (1957) 571558  
Nature, Lond., 180:982-3  
A lake with trapped sea-water?

Describes studies in Lake Tokke, Norway,  
leading to the theory that it contains  
sea water trapped there six thousand  
years ago.

GLK:wad

MF

Stratton, G.B. (Ed.) (1957) 571556  
Zoo Life, 91  
The zoological record

Stuart, L.C. (1957) 571559  
Copeia, (2):89-94  
Herpetofaunal dispersal routes through  
northern Central America

A preliminary discussion of dispersal  
routes of amphybians and reptiles.

MF

HR:hr

F

Strelkovsky, V.I. (1957) 571557  
C.R.Acad.Sci.U.R.S.S., 115(2):403-6  
O formirovanií svyazi mezhdú goidnoi i  
cheliustnoi dugami v ontogeneze osetra  
(Acipenser güldenstädtii) On the  
formation of a link between the hyoid and  
the mandibular arches in the ontogeny of  
Acipenser güldenstädtii

Suau, P. and F. Vives (1957) 571560  
Invest.pesq., 8:121-6  
Sobre la presencia de Gastrosaccus  
sanctus (Van Beneden) en la desemboca-  
dura del río Ebro (On the presence  
of Gastrosaccus sanctus (Van Beneden)  
in the estuary of the river Ebro)

Report of the occurrence with notes  
and illustrations on the morphology  
of the species.

FAO

F

FAO:hr

M

Sugama, K. (1957) 571561  
Bull.Hokkaido reg.Fish.Res.Lab., (16):  
1-12

Analysis of population of the saury  
(Cololabis saira Brevoort) on the basis  
of character of the otolith - I.

Two types of otolith zonation are  
distinguished and related to position  
of capture and time of hatching.

FAO:sjh

II

Sundstrom, G.T. (1957) 571564  
Circ.U.S.Fish Wildl.Serv., (48):48 p.  
Commercial fishing vessels and gear

Gives for each vessel and gear a  
specification, line drawing, map of main  
area of fishing operation, and various  
information such as speed, number in  
crew, lengths of trips, and convertibility  
of vessel to other types of gear.

FAO:sjh

MF

Sundius, S. (1957) 571562  
Svensk FiskTidskr., 66(10):155-9  
Atomkraften och våra vattendrag  
(Nuclear power and our rivers)

Review of the development of the nuclear  
power and the necessity to reserve some  
rivers in natural conditions.

FAO:tl

F

Sutcliffe, W.H. (1957) 571565  
Paper presented at the Inter-Island  
Marine Biological Conference, March 31 -  
April 6, 1957  
Bermuda biological station

A list of the laboratories in the islands  
of the Caribbean with information on their  
physical facilities, staff, etc.  
Abstract in "Report by the Institute of  
Marine Biology, University of Puerto  
Rico".

HR:hr

M

Sundnes, G. (1957) 571563  
J.Cons.int.Explor.Mer., 22(2):191-5  
On the transport of live cod and coalfish

Well-boat experiments with Gadus calla-  
rias L. and Gadus virens L. show the  
importance of oxygen supply just after  
loading.

GLK:sjh

M

Sutcliffe, W.H., Jr. (1957) 571566  
Limnol.Oceanogr., 2:295-6  
An improved method for the determination  
of preserved plankton volumes

Description of a colorimetric method  
for determination of a quantity of  
collected plankton.

HR:tl

M

Sutherland, K.L. (1957) 571567  
Research, Lond., 10:198-204  
Economic methods of controlling  
evaporation of water

Review of the work on monomolecular  
films for reducing evaporation from  
water surfaces with special reference  
to the use of hexadecanol which is  
nontoxic to animals and which does not  
affect oxygen transfer in water adversely.

FAO:glk

MF

Sutherland, N.S. (1957) 571568  
Nature, Lond., 179:1310  
Shape discrimination in the octopus

Part of a debate on neurophysiological  
mechanisms.

GLK:glk

M

Sutherland, N.S. (1957) 571569  
Nature, Lond., 179:11-3  
Visual discrimination of orientation and  
shape by the octopus

Account of aquarium experiments using  
Octopus vulgaris, by conditioned reflex  
method.

GLK:sjh

M

Sutton, G.H., H. Berckhemer 571570  
and J.E. Nafe (1957)  
Paper presented at the Thirty-Eighth  
Annual Meeting, Washington, D.C.,  
April 29 - May 2, 1957  
Physical aspects of deep-sea sediments

M

Suzuki, A. and T. Morio (1957) 571571  
Rep.Nankai reg.Fish.Res.Lab., 6:29-40  
(Biochemical studies on the growth and  
maturation of fish bodies. V. The  
relation between the maturation of  
"Marusoda", Auxis tapeinosoma (Bleeker),  
and the contents of iron, copper and  
zinc in their body). Ni En

Content as per title.

FAO:efa

M

Suzuki, A. and T. Morio (1957) 571572  
Rep.Nankai reg.Fish.Res.Lab., 6:41-6  
(Biochemical studies on the growth and  
maturation of fish bodies. VI. The  
contents of iron, copper and zinc of the  
ovaries of yellowfin tuna). Ni En

Content as per title.

FAO:efa

M

Svätokrizna, G. and  
R. Jacko (1957)  
Biológia, 12(11):828-42  
Saprobiologický výskum Malého Dunaja  
(Saprobiological investigation of the  
Little Danube)

571573

Investigations of the degree of  
pollution in the river using Kolkwich  
saprobry-system of the animals and  
plants as indicator.

FAO:tl

F

Swallow, J.C. and  
L.V. Worthington (1957)  
Nature, Lond., 179:1183-4

571576

Measurements of deep currents in the  
western North Atlantic

Data on deep currents obtained by  
measurements with neutrally buoyant  
floats.

GLK:tl

M

Swain, A. (1957)  
Paper presented at the Symposium of the  
British Association meeting in Dublin,  
Sect.D (Zool.), 10/9/57

571574

Factors affecting the downstream  
migration of salmon and sea trout

MF

Swan, M.A. (1957)  
Scot.Nat., 69:67-70  
Specimens of char from Shetland and the  
Faroe

571577

The Shetland Salvelinus gracillimus in  
the Loch of Gairlsta was believed extinct,  
but is thriving. Its title to specific  
rank is questionable.

:jae

F

Swallow, J.C. (1957)  
Deep-Sea Res., 4:93-104  
Some further deep current measurements  
using neutrally-buoyant floats

571575

Nine more observations have been made  
and currents ranging from 22 to 0.8  
cm/sec have been measured, at depths  
between 340 and 2,900 metres.

FAO:glk

M

Swedmark, B. and  
G. Tessier (1957)  
C.R.Acad.Sci., Paris, 244:501-4  
(Organisation and development of Halammohydra (Hydrozoa) ). Fr

571578

FAO

M



Sweeney, T.R. and 571579  
T.R. Price (1957)  
Rep.NRL Progr., April 1957, 59 p.  
Weathering of creosote related to  
marine borer control

The relationship between chemical  
composition of creosote and its  
ability to protect wood against marine  
borers has been studied by a method  
which accelerates the weathering of  
the treated wood.

FAO:tl

M

Sykes, J.E. (1957) 571580  
Res.Rep.U.S.Fish Wildl.Serv., (46):25 p.  
Past and present Delaware River shad  
fishery and considerations for its  
future

Part of a study begun in 1950 to supply  
Atlantic States Marine Fisheries  
Commission with information relating to  
rehabilitation of Alosa sapidissima  
runs of the Atlantic coast. Probable  
effects of pollution and dam construction  
on the declining fishery.

FAO:sjh

MF

Sykes, J.H.M. (1957) 571581  
Discovery, 18(2):51-5  
Energy from the sea

Discussion on the increasing demands  
for power and the future possibilities  
to meet this demand. Description of  
French plans and work on tidal power.

FAO:tl

M

Sysoev, N.N. and 571582  
V.G. Volkov (1957)  
Trud.Inst.Okeanol., 24:173  
(Manual of the techniques of electro-  
magnetic measurement of sea currents  
velocities under way). Ru

M

Szabo, T. (1957) 571583  
C.R.Acad.Sci., Paris, 244:1265-7  
Un centre bulbaire particulier chez deux  
types différents de poissons électriques  
de la famille des mormyrides (Special  
bulbous centre in two different types of  
electric fishes of the family Mormyridae)

Ill. note on brain anatomy of Gymnarchus  
niloticus and Gnathonemus senegalensis  
elongatus.

FAO:sjh

F

Tabata, S. (1957) 571584  
Trans.Amer.geophys.Un., 38:191-7  
Classification of daily sea-water data

A method is presented for classifying  
daily observations of sea-water  
temperature and salinity at five light  
stations along the coast of British  
Columbia. Examples of the use of this  
classification are also shown.

TL:tl

M

Tabata, S. and G.L. Pickard(1957) 571585  
J.Fish.Res.Bd Can., 14:487-520  
The physical oceanography of Bute Inlet,  
British Columbia

Distribution of salinity, temperature  
and oxygen has been examined on the  
basis of 12 oceanographic surveys from  
August 1950 to July 1953. Salinity  
structures of the shallow waters during  
the various seasons are classified.  
The role of insolation and of cold run-  
off water as factors influencing the  
fluctuation in sea temperature is  
discussed.

GLK:glk

M

Taguchi, K. (1957) 571586  
Bull.Jap.Soc.sci.Fish., 22(9):511-4  
(The seasonal variation of the good  
fishing area of salmon and the movements  
of water masses in the waters of western  
North Pacific - I. Distribution and  
movement of water masses). Ni En

Results of exploratory fishing and  
hydrological observations by 14 research  
vessels of Nichiro Fisheries Co.  
corroborate previous reports and  
indicate some changes.

SJH:tjj

M

Taguchi, K. (1957) 571587  
Bull.Jap.Soc.sci.Fish., 22(9):515-21  
(The seasonal variation of the good  
fishing area of salmon and the movements  
of the water masses in the waters of  
western North Pacific - II. The  
distribution and migration of salmon  
population in offshore waters). Ni  
En

Analyses catches of 339 gillnet-boats  
during the 1955 season.

SJH:tjj

M

Taguchi, K. (1957) 571588  
Bull.Jap.Soc.sci.Fish., 22:609-17.  
(The seasonal variation of the good  
fishing area of salmon and the  
movements of water masses in the waters  
of western North Pacific - III.  
Relation between the distribution of  
salmon population and oceanographical  
condition mainly in the southern  
waters of 48°N. Lat.). Ni En

Describes oceanographic studies made  
since 1934, and results of exploratory  
fishing by ten research vessels in 1956;  
relation of distribution of salmon of  
Asian origin to Oyashio and Kuroshio  
currents.

SJH:sjh

MF

Tait, J.B. (1957) 571589  
Proc.roy.Soc.Edinb., 64(18):239-89  
Recent oceanographical investigations  
in the Faroe-Shetland Channel

The research reveals very large scale  
seasonal and long-term variations in  
the north-eastward volume-transport of  
oceanic water, suggests the existence  
on occasions of what appear to be  
horizontal tortional currents within  
the oceanic water-mass, and demonstrates  
(a) the intrusion of Gulf of Gibraltar  
(extra-Mediterranean) water into this  
mass over a period of years, (b) the  
formation of heavy oceanic water and  
(c) of a sub-oceanic current.

FiB:glk

M

Takagi, K. (1957) 571590  
J.Tokyo Univ.Fish., 43(1):97-126  
Descriptions of some new gobioid fishes  
of Japan, with a proposition on the  
sensory line system as a taxonomic  
character

Ill. descriptions of n. spp. Amblyeleotis  
japonicus, Ctenogobius dotui, Callo-  
gobius shunkan, Stigmatogobius minutus,  
Palcatogobius uchidai (gen. nov.) and  
Chaenogobius scrobiculatus.

FAO:sjh

M

Tal, S. (1957) 571591  
Bamidgeh, 9(1):3-6

Actual problems in carp culture

Fish feed, drop in yield and storage  
and other marketing problems are  
discussed.

WAD:tjj

F

Talling, J.F. (1957) 571594  
Hydrobiologia, 11(1):73-89

The longitudinal succession of water  
characteristics in the White Nile

Describes the physical and chemical  
successional changes, including some  
seasonal differences, their causes  
and their effect on the biota.

FAO:wad

F

Tal, S. (1957) 571592  
Bamidgeh, 9:21-6

Reasons for the pond yield decrease  
during 1956 and means of preventing  
re-occurrence

An analysis of the distribution of and  
reasons for decreases in total yield as  
compared with previous years, with  
suggestions for future improvements.

FAO:sjh

F

Talling, J.F. (1957) 571595  
Limnol.Oceanogr., 2:213-21

Some observations on the stratification  
of Lake Victoria

Studies of this tropical African lake in  
1956 are described and compared with  
previous ones with reference to  
temperature, oxygen, the vortical  
distribution of planktonic algae and  
its relation to the photosynthetic zone.

HR:wad

F

Talbot, F.F. and 571593  
B.S. Nowell (1957)

E.Afr.agric.J., 22(3):118-21

A preliminary note on the breeding and  
growth of Tilapia in marine fish ponds  
on Zanzibar Island

Initial experiment in the stocking of  
marine fish ponds, operated by the East  
African Marine Fisheries Research  
Organization, with a species of wild  
Tilapia closely related to T. mossambica  
and T. pangani. Description of the  
experiment. This species of T. shows  
remarkable adaptation to environment.  
There has been direct competition with  
Chanos chanos for food.

ISJ

F

Talling, J.F. (1957) 571596  
New Phytol., 56(2):133-49  
The phytoplankton population as a compound  
photosynthetic system

Influence of various environmental factors  
on the photosynthesis is described. A  
mathematical model, describing the general  
case of integral photosynthesis in the  
water column, is attempted. Its application  
to ecological situations is illustrated  
by examples relating to the growth of  
Asterionella in Lake Windermere.

FAO:tl

MF



Talling, J.F. (1957) 571597  
New Phytol., 56:29-50  
 Photosynthetic characteristics of some  
 freshwater plankton diatoms in relation  
 to underwater radiation

I. Of natural and cultured populations  
 of diatom Asterionella formosa  
 principally from English lakes.

II. Effects of temperature and light  
 intensity. III. Of other planktonic  
 diatoms - Fragilaria crotonensis  
 (cultured population) and Melosira  
italica subsp. subarctica (natural  
 population).

FiB:tl

F

Tamiya, H. (1957) 571600  
Annu.Rev.Pl.Physiol., 8:309-34  
 Mass culture of algae

F

Talling, J.F. (1957) 571598  
Physiol.Plant., 10(1):215-23  
 The growth of two plankton diatoms in  
 mixed cultures

The growth of two freshwater plankton  
 diatoms, Asterionella formosa and  
Fragilaria crotonensis, is described  
 from mixed cultures and in media  
 containing culture filtrates.

FAO:tl

F

Tamura, T. (1957) 571601  
Bull.Jap.Soc.sci.Fish., 22(9):536-57  
 A study of visual perception in fish,  
 especially on resolving power and  
 accommodation

Discusses power of lens, dioptric  
 accommodation and retinal capacity in  
 27 species, comparing their visual  
 fields in terms of binocular angle,  
 visual axis and topographical  
 differences in cone density.

SJH:tjj

M

Tambs-Lyche, H. (1957) 571599  
Vop.Ikhtiolog., 8:19-24  
 Razvitie morskikh rybolovnykh  
 issledovaniy v Norvegii (The  
 development of Marine Fisheries Research  
 in Norway)

Brief general review of the history of  
 Norwegian fisheries research with  
 reference to the work of G.O. Sars,  
 H. Hansen, J. Hjort and others.

FAO:glk

M

Tamura, T., G. Mitarai 571602  
 and Y. Sugita (1957)  
Bull.Jap.Soc.sci.Fish., 23:86-91  
 The lowest intensity of illumination to  
 produce the maximum cone potential in  
 the fish retina and its ecological  
 meaning

Comparative experimental study of  
Sparus arios, Cyprinus carpio and  
Latolabrax japonicus.

SJH:sjh

MF



Tanaka, K. (1957) 571603  
Bull.Jap.Soc.sci.Fish., 23(4):202-5  
Observations on the distribution of  
Conchocelis-phase of Porphyra tenora  
Kjellman in the oyster-shell

Tank experiments with shells of Ostrea  
denselamellosa.

SJH:sjh

M

Taylor, G.N., L.S. Cole 571606  
and W.F. Sigler (1957)  
J.Wildlife Mgmt, 21:201-13  
Galvanotaxic response of fish to  
pulsating direct current

Summary of an investigation of advantage  
and disadvantage of some power forms,  
especially that of pulsed direct current,  
in capturing live fish especially  
Salmo gairdneri but also Cyprinus,  
Ictalurus, Coregonus and Catostomus.

FAO:sjh

F

Taniguchi, T. (1957) 571604  
Bull.Jap.Soc.sci.Fish., 22(12):727-9  
(On the resistance of various cod ends  
fixed in a stream - IV). Ni En

The hydrodynamic resistance of pyramid  
type cod ends with different total areas  
of webbing was measured experimentally.  
The results were compared with  
theoretical values.

SJH:sjh

MF

Taylor, G.T. and 571607  
R.J. LeBrasseur (1957)  
Progr.Rep.Pacif.Cst Stas, (109):9-11  
Distribution, age and food of steel-  
head trout Salmo gairdneri caught in  
the northeast Pacific Ocean, 1956

Length and age distributions; stomach  
contents.

GLK:sjh

MF

Tanonaka, G.K. (1957) 571605  
Copeia, (1):53-4  
The occurrence of the squaretail, Tetra-  
gonurus cuvieri, on the high-seas south  
of the Aleutian Islands

Reports first record of this sp. from  
high seas of North Pacific.

HR:efa

M

Taylor, W.R. (1957) 571608  
Sci.Ser.Univ.Michigan Stud., 13:509 p.  
Marine algae of the northeastern coast  
of North America

M

Tchernia, P. (1957) 571609  
Bull.Com.cent.Océanogr., 9(10):545-50  
Sur l'origine des eaux salées profondes  
du nord-ouest de l'Océan Indien (On  
the origin of the deep salt waters in  
the north-west of the Indian Ocean)

Examination of past theories on this  
question in the light of results of work  
done in 1955/56 and of an examination  
of the results of the JOHN MURRAY  
expedition. The influence of the waters  
of the Red Sea, the Persian Gulf and  
the Arabian Sea is discussed.

FAO:glk

M

Tchernigovtzeff, C. (1957) 571610  
C.R.Acad.Sci., Paris, 244:1267-9  
Observations sur l'évolution du bourgeon  
de régénération du second périopode  
chez Leander serratus (Pennant)  
(Observations on the development of the  
regenerative bud of the second periopod  
in Leander serratus (Pennant) )

Describes amputation experiment on  
specimens reared in laboratory.

FAO:sjh

M

Togelberg, H.C. and 571611  
J.M. Smith (1957)  
Fish.Res.Pap.Wash.Dep.Fish., 2(1):25-34  
Observations on the distribution and  
biology of the pink shrimp (Pandalus  
jordani) off the Washington coast

Exploratory trawling by JOHN N. COBB,  
October-November 1955 and March-April  
1956, giving size composition, diurnal  
variations in catches, maturity, sex-  
ratios.

FAO:sjh

M

Templeman, W. (1957) 571612  
Progr.Rep.Atl.Cst Stas, (67):14-8  
Redfish exploration north of Flemish Cap

Reports cruise of INVESTIGATOR II, 12-17/  
7/1956 to study Sebastes marinus  
distribution by area and depth. Catch  
per unit effort, length and weight  
distribution.

FAO:sjh

M

Templeman, W. and 571613  
E.J. Sandeman (1957)  
Progr.Rep.Atl.Cst Stas, (66):20-3  
Two varieties of redfish in the  
Newfoundland area. Fr

Ill. description of distinction between  
Sebastes m. marinus and S. marinus  
montella.

GLK:sjh

M

Terry, R.D. and 571614  
R.E. Stevenson (1957)  
Bull.geol.Soc.Amer., 68:125-8  
Microrelief of the Santa Monica Shelf,  
California

Tesch, F.W. and W. Steffens (1957) 571615  
Dtsch.FischZtg, (4):105-10  
Ein Grossgarnzug der Plattenseefischer  
(Pulling of big nets by the fishermen  
of Lake Balaton)

Description of mechanized seining on  
Lake Balaton (Hungary); description of  
the gear and its use.

FAO:tl

F

Tezel, R. (1957) 571618  
Balık Balıkçılık, 5(6):23-7  
Eski profesyonel balıkçılara dair  
(About the old professional fishermen)

The reminiscence of an old fisherman,  
about the kinds of fresh fish available  
in the Bosphorus about 50 years ago.

SJH:sjh

M

Tezel, R. (1957) 571616  
Balık Balıkçılık, 5(4):24-7  
Mercan balıkçılığına dair (About  
fishing grounds)

An amateur fisherman's reminiscence of  
fishing grounds in the Marmara Sea.

SJH:sjh

M

Thacker, D.R. and 571619  
H. Babcock (1957)  
J.Solar Energy Sci.Eng., 1:37-50  
The mass culture of algae

Review of growth and culture of Chlorella  
and other algae in mineral media for  
commercial purposes.

GLK:sjh

F

Tezel, R. (1957) 571617  
Balık Balıkçılık, 5(7):25-8  
Balıkçılık anane ve adabına dair  
(About the habits and customs among the  
Bosphorus fishermen)

An old amateur fisherman's reminiscences  
about the traditions and the mutual  
respect of the Bosphorus fishermen some  
50 years ago.

SJH:sjh

M

Thailand. Department of 571620  
Fisheries (1957)  
Bangkok, 52 p.  
A general account on the fisheries of  
Thailand

MF

Thailand. Ministry of Agriculture (1957) Bangkok, 263 p. Agriculture in Thailand	571621	Thomson, J.M. (1957) <u>Aust.J.Mar.Freshw.Res.</u> , 8:1-13 Biological studies of economic significance of the yellow-eye mullet, <u>Aldrichetta forsteri</u> (Cuvier and Valenciennes) (Mugilidae)	571624
Chapter 3 deals with aquatic resources and fisheries; species caught are listed; fishing, processing and marketing methods are described; governmental activities are described; statistics of gear, catch, catch, market handlings, and trade.		Range and distribution; form and growth; size distribution; maturity; fecundity; sex-ratio; food; movements, variation; implications for the commercial fishery.	
GLK:glk	MF	GLK:sjh	M
Théodoridés, J. (1957) <u>Viè et Milieu</u> , 8(1):115-6 Parasites intestinaux de <u>Hydrophilus</u> (Hydrous) <u>pistaceus</u> Lap. (Col. Hydro- philidae) observés à Banyuls (Intestinal parasites of <u>Hydrophilus</u> (Hydrous) <u>pistaceus</u> Lap. (Col. Hydro- philidae) observed at Banyuls)	571622	Thomson, J.M. (1957) <u>Aust.J.Mar.Freshw.Res.</u> , 8:14-28 Interpretation of the scales of the yellow-eye mullet, <u>Aldrichetta forsteri</u> (Cuvier and Valenciennes)	571625
<u>Trichella hydrophilorum</u> Lóger and Duboscq, <u>Nyctotherus gyoeryanus</u> (Claparède and Lachmann) and <u>Toddinoma hydrophili</u> (Galch) found to be existing in the posterior intestine of <u>H. (H.) pistaceus</u> .		Study of structure; age-length keys; causes of rings and breaks in growth; comparison of growth of fish in Tasmania, Victoria and Western Australia and of females and males; modes of length distribution give high values for years I and II, because of mesh selection.	
FAO:efa	F	GLK:sjh	M
Thompson, P.E. (1957) <u>Washington</u> Should areas be set aside as nursery grounds to aid in the annual crop?	571623	Tibbo, S.N. (1957) <u>Bull.Fish.Res.Bd Can.</u> , (111):139-51 Contribution to the biology of herring ( <u>Clupea harengus</u> L.) on the Atlantic coast of Nova Scotia	571626
		A general study is made of the length and age composition, rate of growth, sex, maturity and mean vertebral counts of herring on the Atlantic coast of Nova Scotia.	
	MF	FAO:glk	M



Tibbo, S.N. (1957) 571627  
Bull.Fish.Res.Bd Can., (111):85-102  
Herring of the Chaleur Bay area

Lengths, age, sex and maturity, vertebral counts; length and age composition; variations in relative strength of year-classes; rates of growth; the herring fishery and its potential.

FAO:glk

M

Tiews, K. (1957) 571630  
Ber.dtsch.Komm.Meeresforsch., 14(3):221-32

Wirtschaftliche Bedeutung der deutschen Thunfischerei (Economic importance of the German tuna fishery)

The fishing areas and seasons, fleet and landing harbours; catches in various years and processing.

FAO:tl

M

Tibbo, S.N. (1957) 571628  
Bull.Fish.Res.Bd Can., (111):153-64  
Herring populations on the south and west coasts of Newfoundland

Length and age composition, variations in relative strength of year-classes, rates of growth, sex and maturity, vertebral counts.

FAO:glk

M

Timofeeva-Resovskaya, E.A. (1957) 571631  
Bull.Soc.Nat.Moscou, 62(1):37-41  
Biological deactivation of water containing radioactive substances by means of special ponds

MF

Tiews, K. (1957) 571629  
Ber.dtsch.Komm.Meeresforsch., 14(3):192-220

Biologische Untersuchungen am roten Thun (Thunnus thynnus, Linnaeus) in der Nordsee (Biological investigations on the red tunas (Thunnus thynnus) in the North Sea)

Investigations concerning the appearance, propagation, length and weight and origin of Thunnus thynnus in the North Sea.

FAO:tl

M

Ting, R.Y. and 571632  
P.T. Macy (Ed.) (1957)  
Transl.Ser.Pacif.Salm.Invest., (13), 4 p.  
Discussion on the position from which scale samples of red salmon should be taken for age determination

Translated from Biol.Rep.int.N.Pacif.Fish.Comm., 14.

MF

Tracheva, K.S. (1957) 571633  
Vop.Ikhtiol., 8:51-4  
Razmnozhenie krupnoi stavridy (Trachurus  
trachurus L.) v Chernom more  
 (Reproduction of the Longo mackerel  
 (Trachurus trachurus L.) in the Black  
 Sea)

Brief account of the distribution of  
 spawning fish, eggs and larvae.

FAO:glk

M

Tortorese, E. (1957) 571636  
Bull.Res.Coun.Israel, 6B(3-4):189-92  
 On the Echinoderm fauna of Haifa Bay

Littoral and Mediterranean forms, living  
 in sand or mud; names and characters  
 of 24 spp. listed, five of which were  
 previously unknown on this coast.

FAO:sjh

M

Tomlinson, N. and 571634  
 R.A. MacLeod (1957)  
Canad.J.Microbiol., 3(4):627-38  
 Nutrition and metabolism of marine  
 bacteria. IV. The participation of Na,  
 K, and Mg salts on the oxidation of  
 exogenous substrates by a marine  
 bacterium

The inorganic ion requirements for the  
 preparation, storage, and oxidative  
 activity toward exogenous substrates  
 of washed cell suspensions of a marine  
 bacterium have been investigated.

FAO:tl

M

Towlson, G. (1957) 571637  
New Scient., 2(46):14-6  
 Influences on the regime of rivers

A review of the natural factors which  
 determine the characteristics of a  
 river system, and the study of which is  
 the basis of river control engineering.

FAO:sjh

F

Toner, E.D. (1957) 571635  
 Paper presented at the Symposium of the  
British Association meeting in Dublin,  
Sect. D (Zool.), 10/9/57  
 Movements of salmon in the sea around  
 Ireland

Tozawa, H., Y. Tokue. 571638  
 and K. Amano (1957)  
Bull.Jap.Soc.sci.Fish., 23(6):335-41  
 Studies on the radioactivity in certain  
 pelagic fish - V. Confirmation and  
 determination of radioactive elements  
 in contaminated fishes caught in 1956  
 (Part 1)

Analysis of liver of yellow-fin tuna and  
 muscle of big-eye tuna caught by  
SHUNKOTSU-MARU, June 1956, at 10°N,  
 157°30'E, with special attention to  
 presence of <sup>55</sup>Fe, <sup>65</sup>Zn, and <sup>113m</sup>Cd.

MF

SJH:sjh

M

Trager, W. (1957) 571639  
Biol.Bull., Wood's Hole, 112(1):132-6  
Excystation of apostome ciliates in  
relation to molting of their crustacean  
hosts

Observations and experiments have been  
made with the encysted phoronts of  
Gymnodinioides inkystans on the gills  
of Pagurus longicarpus and of Gymnodi-  
nioides sp. on the gills of Uca pugnax  
and examines the condition under which  
excystation will take place.

FAO:glk

M

Trewavas, E. (1957) 571640  
Copeia, (2):161-2  
Exploration hydrobiologique du Lac  
Tanganyika (1946-1947) (Hydrobiological  
survey of Lake Tanganyika)

Review of Poissons Cichlidae by M. Poll,  
Rés.sci., 3(5B), 1956:1-619.

HR:efa

F

Truesdale, G.A. and 571641  
A.L.H. Gameson (1957)  
J.Cons.int.Explor.Mer., 22(2):163-6  
The solubility of oxygen in saline  
water

Synopsis for determinations of the  
solubility of oxygen in sea water at  
low temperatures have been made; the  
results confirm the accuracy at such  
temperatures of a solubility formula  
previously reported. A table of  
solubilities in sea water is given, and  
the uses and limitations of some  
solubility formulae are discussed.

GLK:ajh

M

Tsuda, K., S. Akagi and 571642  
Y. Kishida (1957)  
Science, 126:927  
Discovery of cholesterol in some red  
algae

Technique of extraction, purification and  
identification applied to Rhodoglossum  
pulcherum (Kützting) and members of the  
family Gelidiceae.

FAO:glk

M

Tubb, J.A. (1957) 571643  
Occ.Pap.IPFC, mimeo:4 p.  
Shifting cultivation and inland fisheries  
Discusses adverse effects on water regime  
in sloping and flat lands subject to  
flash floods and silting resulting  
especially from too frequently repeated  
shifting cultivation.

FiB:tjj

F

Tully, J.P. and 571644  
A.J. Dodimead (1957)  
J.Fish.Res.Bd Can., 14(3):241-319  
Properties of the water in the Strait of  
Georgia, British Columbia, and  
influencing factors

The temperature, salinity, pH, and  
concentrations of dissolved oxygen,  
dissolved nitrates, nitrites, inorganic  
phosphates, and silicates are shown and  
discussed, and their seasonal and  
diurnal cycles are related to the  
mechanism of tidal exchange, discharge  
of the Fraser river, weather, and growth  
of plankton.

GLK:tl

MF



Tunison, A.V. (1957) 571645  
Progr.Fish Cult., 19(2):51-7  
Methods for determining the efficiency of  
production in the trout hatchery

A review of methods used in analysis and  
presentation of results.

WAD:wad

F

Türgân, G. (1957) 571646  
Balık Balıkçılık, 5(6):9-14  
Lüfer - Temnedon saltator Cuvier  
(Blue fish - Temnedon saltator Cuvier)

An article concerning new data based on  
the results of a research made at the  
Hydrobiological Research Institute.

SJH:sjh

M

Turekian, K.K. (1957) 571646  
Paper presented at the Thirty-Eighth  
Annual Meeting, Washington, D.C.,  
April 29 - May 2, 1957

The significance of variations in the  
strontium content of deep-sea cores

M

Tuzot, O. and 571649  
A.M. del Perruggia (1957)  
Vie et Milieu, 8(1):72-5  
Présence de la planaire américaine  
Dugesia (cuplanaria) tigrina Girard aux  
environs de Montpellier (The presence  
of the American planaria Dugesia (cupla-  
naria) tigrina Girard in the surroundings  
of Montpellier)

Records of distribution of the species.

FAO:hr

F

Turgutcan, B. (1957) 571647  
Balık Balıkçılık, 5(10):19  
Düğünler (Bağlar).VI (Fishermen's  
knots.VI)

A feature article dealing with several  
types of knots useful to fishermen.

SJH:sjh

M

Twomey, E. (1957) 571650  
Paper presented at the Symposium of the  
British Association meeting in Dublin,  
Sect.D (Zool.), 10/9/57  
The age and growth of Irish salmon

MF



Uda, M. and A. Dairokuno (1957) 571651  
Sci.Rep.Wholes Res.Inst., Tokyo, (12):

209-24

A study of the relation between the whaling grounds and hydrographic conditions. II. A study of the relation between the whaling grounds off Kinkazan and the boundary of water masses

Brief notes on observed whaling grounds; their distribution and seasonal variation. Incl. information on seasonal variation of whale catch.

FAO:sfa

M

Ueyanagi, S. (1957) 571652  
Rep.Nankai reg.Fish.Res.Lab., 6:107-12  
(On Kaikiia formosana (Hirasala and Nakamura) ). Ni En

Ecological and morphological evidence that this sp. is really the young of K. mitsukurii (striped marlin).

FAO:sjh

M

Ueyanagi, S. (1957) 571653  
Rep.Nankai reg.Fish.Res.Lab., 6:103-6  
(Morphological changes occurring through the growth of the black marlin, Eumakaira nigra Nakamura). Ni En

Morphological changes in growth from 10 to 230 cm (snout length, dorsal fin form, pectoral and ventral fin lengths).

FAO:sjh

M

Ueyanagi, S. (1957) 571654  
Rep.Nankai reg.Fish.Res.Lab., 6:113-24

(Spawning of the albacore in the western Pacific). Ni En

Gonads collected by research vessel since 1949 show season and position of spawning, size of maturity, and fecundity.

FAO:sjh

M

Ueyanagi, S. (1957) 571655  
Rep.Nankai reg.Fish.Res.Lab., 6:91-102  
(Young of the black marlin, Eumakaira nigra Nakamura). Ni En

11 specimens 11.1-75.5 cm long from W. Pacific, S. Pacific and Indian Ocean confirmed as Eumakaira nigra in spite of morphological differences from adults, stomach contents show food is small squid and fish (Istiophorus, Decapterus, etc.) concentrated in W. Pacific in N. Equatorial current area.

FAO:sjh

M

Uganda. Game and Fisheries 571656  
Department (1957)  
Uganda, 1957, 147 p.  
Annual report for the period 1st January, 1955, to 30th June, 1956

Part III mentions progress in fisheries in Albert, George/Edward and Kyoga lake areas with a section on fish farming including aerial stocking of Tilapia. One appendix is on deep water fishing experiments.

:tjj

F

Union Géodésique et Géophysique 571657  
Internationale (1957)  
Paris, 36 p.  
Chronique de l'U.G.G.I. no. 1 (I.U.G.G.  
chronicle)

Programme of the I.U.G.G. 11th General  
Assembly, minutes of the meeting of the  
Interim Policy Committee, and minutes of  
the meeting of the Working Group of  
Oceanography of C.S.A.G.I.

TL:tl

M

Union Géodésique et Géophysique 571658  
Internationale (1957)  
Paris, 39:83  
Chronique de l'U.G.G.I. no. 2  
(I.U.G.G. chronicle)

Report of the meeting of Working Group  
on Oceanography of C.S.A.G.I. in  
Gothenburg, January 1957, with appended  
memoranda and notes on problems discussed  
during the meeting.

TL:tl

M

Union Géodésique et Géophysique 571659  
Internationale (1957)  
Paris, 87-116  
Chronique de l'U.G.G.I. no. 3  
(I.U.G.G. chronicle)

Statutes and regulations of the I.U.G.G.

TL:tl

M

Union Géodésique et Géophysique 571660  
Internationale (1957)  
Paris, 117-62  
Chronique de l'U.G.G.I. no. 4  
(I.U.G.G. chronicle)

Notes on the present and future activities  
of various associations and international  
organizations associated with the I.U.G.G.

TL:tl

M

Union Géodésique et Géophysique 571661  
Internationale (1957)  
Paris, 167-208  
Chronique de l'U.G.G.I. no. 5  
(I.U.G.G. chronicle)

National reports presented at the fourth  
C.S.A.G.I. Antarctic Conference.

TL:tl

M

U.K. Department of Scientific 571662  
and Industrial Research (1957)  
H.M.S.O., London, 80 p.  
Report of the Water Pollution Research  
Board with the report of the Director of  
Water Pollution Research for the year  
1956

Reports progress in Thames estuary  
survey; study of oxygen balance in  
surface waters, effect on it of synthetic  
detergents, evaporation reducers, sewage  
and foam suppressers; and the effects of  
pollution on fish. A simple automatic  
recorder of dissolved O<sub>2</sub> is described.  
21 publications issued in 1956 are listed.

FAO:tjj

MF

U.K. Meteorological Office (1957) 571663  
H.M.S.O., London  
Climatological charts of the North Atlantic, May-October, 1957

U.K. Ministry of Agriculture, Fisheries and Food (1957) 571666  
Fish.Lab., Lowestoft  
Fish stock record for 1956

A new mimeographed serial publication giving tables of age and size compositions of British landings, and catches per unit effort of plaice, sole, whiting, hake and cod.

M

FAO:sjh

M

U.K. Meteorological Office (1957) 571664  
H.M.S.O., London  
Climatological charts of the North Atlantic, July

U.K. Ministry of Agriculture, Fisheries and Food (1957) 571667  
Lab.Leafl., Lowestoft, (15):4 p.  
The baird sledge dredge and its handling

Detailed ill. description of new gear for Pecten fishing, and its operation.

MF

SJH:sjh

M

U.K. Meteorological Office (1957) 571665  
O.W.S.Met.Summ., 10  
Meteorological and current summary for Ocean Weather Stations - India, Juliett, and Alpha for January to December 1956

U.K. Ministry of Agriculture, Fisheries and Food (1957) 571668  
Lab.Leafl., Lowestoft, (13):5 p.  
English fish marking experiments in the near waters in 1956

Numbers and localities of cod, whiting, coalfish, hake, sole and herring marked and recaptured.

M

SJH:sjh

M

U.K. Ministry of Agriculture, 571669  
Fisheries and Food (1957)  
Lab. Leaflet, Lowestoft, (16):31 p.  
Guide to the exhibition, fisheries  
laboratory, Lowestoft

A narrative giving detailed explanation  
of exhibits illustrating and explaining  
English marine fisheries research.

SJH:sjh

M

U.K. Ministry of Agriculture, 571670  
Fisheries and Food (1957)  
Lab. Leaflet, Lowestoft, (12):26 p.  
Mid-water trawling pair fishing  
experiment on herring 1955-56

An ill. report on alterations to vessels,  
specification and operation of gear;  
catches of Clupea harengus obtained:  
their size and quality dependence on  
depth and time of day; use of echo-  
sounder to observe both fish and gear.

SJH:sjh

M

U.K. Ministry of Agriculture, 571671  
Fisheries and Food (1957)  
Lab. Leaflet, Lowestoft, (14):5 p.  
Stocks of hake

A development of analysis reported in  
Lab. Leaflet, (4), 1954, to determine  
benefits of regulated fishing for  
Merluccius merluccius.

SJH:sjh

M

U.K. Ministry of Transport 571672  
and Civil Aviation (1957)  
London  
Manual on the avoidance of pollution of  
the sea by oil

M

U.S. Congress. Senate 571673  
Committee on Interstate and  
Foreign Commerce (1957)  
Wash., U.S. Govt Print. Off., 47 p.  
Research for commercial production of  
fish on flooded rice acreage

Hearing regarding Senate bill 1952  
proposing a program of research to  
develop methods for the commercial  
production of fish on flooded rice  
acreage in rotation with rice field  
crops.

FAO:wad

F

U.S. Department of the Interior. 571674  
Branch of Gamefish and Hatcheries (1957)  
Fish. Leaflet, Wash., (147):7 p.  
List of federal fish-cultural stations

F



U.S. Fish and Wildlife Service (1957) 571675  
Dingell-Johnson Quart., 5(3)

For the period 1/1/56-30/6/56 lists and indexes projects and summarizes accomplishments of U.S. Federal Aid in Fish Restoration Program covering investigations of many marine and inland fisheries and species, development, and land and water acquisitions under this program in all states and territories.

WAD:sjh

MF

U.S. Fish and Wildlife Service (1957) 571676  
Dingell-Johnson Quart., 6(1)

For the period 1/7/56-31/12/56 lists and indexes projects and summarizes accomplishments of U.S. Federal Aid in Fish Restoration Program covering investigations of many marine and inland fisheries and species, development, and land and water acquisitions under this program in all states and territories.

WAD:sjh

MF

U.S. Fish and Wildlife Service 571677  
Bureau of Sport Fisheries and Wildlife (1957)  
Sport Fish Restor., 29 p.  
A report on sport fish restoration

A brochure describing the Federal Aid in Fish Restoration Program (Dingell-Johnson) of the United States for the 1952-56 period; popularly written and with many illustrations.

WAD:wad

F

U.S. Fish and Wildlife Service 571678  
Bureau of Sport Fisheries and Wildlife (1957)  
Sport Fish Restor., (Statist. Suppl.), 59 p.  
A report on sport fish restoration

A summary in tabular form of detailed information on the Federal Aid to Fish Restoration (Dingell-Johnson) Program in the U.S. during the 1952-56 period.

SJH:wad

F

U.S. Government (1957) 571679  
Selected U.S. Govt Publ., Govt Print. Off., Wash., 760 p.

Documents on the use and control of the waters of interstate and international streams, compacts, treaties, and adjudications

U.S. Government (1957) 571680  
Wash., U.S. Govt Print. Off., 411-43, 464  
Arctic bibliography, Volume 7, A-Z, No. 38

U.S. Farina Commission (1957) 571681  
Washington, 175 p.

Groundfish: fishing and filleting.  
Information on the domestic industry,  
production, consumption, foreign trade,  
and industries in foreign countries

Includes description of groundfish areas  
and fishing operations; landings,  
employment and earnings, craft activity  
and financing.

FAO:sjh

M

U.S. Treaties and other 571682  
International Acts (1957)  
Wash., U.S. Govt Print.Off., 6 p.  
Sockeye and pink salmon fisheries.  
Protocol between the United States of  
America and Canada, amending Convention  
of May 26, 1930, signed at Ottawa,  
December 28, 1956

MF

Unoki, S. (1957) 571683  
J.met.Soc.Japan, Ser. II, 35(2):78-87  
On the ocean waves due to tropical  
cyclones (2nd paper). Distribution of  
waves viewed from geometric considera-  
tion and typhoon reconnaissance by  
aircraft

M

Urlick, R.J., D.C. Pharo 571684  
and E. Skudrzyk (1957)

Paper presented at the Thirty-Eighth  
Annual Meeting, Washington, D.C.,  
April 29 - May 2, 1957

A new method for measuring the thermal  
microstructure of the sea

M

Uspenskaya, V.I. (1957) 571685  
Bull.Soc.Nat.Moscou, 62(1):43-9  
Preliminary observations on how to  
weaken or eliminate the earthy odour  
of river water

F

Utah University. Bureau of 571686  
Economic and Business Research (1957)  
Publ.Utah St.Dop.Fish Game, (7):73 p.  
A study of the economic value of fishing  
and hunting in Utah

F

Uusitalo, S. (1957) 571687  
Geophysica, Helsinki, 5(3)  
 Beobachtungen mit Bezug auf das Meereis  
 (Observations relating the sea-ice)

Salinities of ice, its thickness and  
 influence of the snow cover on  
 thickness.

Vaas, K.F. (1957) 571690  
Proc. Indo-Pacif. Fish. Council., 5:90-7  
 On the nutritional relationships between  
 plankton and fish in Indonesian fresh-  
 water ponds

:tl

MF

F

Uusitalo, S. (1957) 571688  
Geophysica, Helsinki, 5(3)  
 On the interpretation of bathy-  
 thermogrammes

Description of a method for correction  
 of errors due to the slowness of the  
 instrument.

Valdivia, J.P. (1957) 571691  
Bol. Comp. adm. Guano, 33(8):9-13  
 Situación climática del año 1955  
 (Climatic situation of the year 1955)

General meteorological study of the  
 climate of the coast of Peru.

:tl

MF

FAO:hr

M

Uyguner, B. (1957) 571689  
Balık Balıkçılık, 5(2):14-6  
 Apolyont gölüne ait kısa bir etüt  
 (A short note on Lake Apolyont)

A survey of the yearly fish production  
 of Lake Apolyont.

Valérien, J. (1957) 571692  
Vie et Milieu, 8(1):23-57  
 L'anhydrase carbonique et la production  
 des gaz de la vessie natatoire de  
Serranus cabrilla (L.) et S. scriba (L.)  
 (Carbonic anhydrase and the gas production  
 of the swim bladder of S. cabrilla (L.)  
 and S. scriba (L.) ).

A study of the metabolism of the gases  
 of the swim bladder of the species in  
 relation to the action of the carbonic  
 anhydrase.

SH:sgk

F

FAO hr

M

<p>Vallowe, H.H. (1957) 571693  <u>Biol.Bull.Wood's Hole</u>, 112(3):422-9  Sexual differentiation in the teleost fish <u>Xiphophorus hellerii</u>, as modified by experimental treatment</p> <p>The normal sexual development and differentiation of <u>Xiphophorus hellerii</u> have been observed in the light of the adult sex ratio and the differentiation of the gonads from birth to maturity; reports also attempts to alter the differentiation pattern by experimental means.</p> <p>FAO:glk M</p>	<p>Van Campen, W.G. and 571696  E.E. Hoven (1957)  <u>Fish.Bull., U.S.</u>, 111:173-249  Tunas and tuna fisheries of the world. An annotated bibliography, 1930-53</p> <p>Lists literature published between 1930 and 1953 with descriptive annotations and a subject index.</p> <p>FAO:efa M</p>
<p>Valori, P. (1957) 571694  <u>Ric.sci.</u>, 27(8):2492-500  La fotometria di fiamma nell'analisi delle acque naturali (The flame photometry in the analysis of natural waters)</p> <p>Reports a method of lithium determination in natural waters by the use of flame photometry. It consists of a particular technique for the preparation of the standards and samples of water to be examined, and permits the extremely quick determination of lithium concentrations up to 0.1ppm.</p> <p>FAO:glk F</p>	<p>Van Drimmelen, D.E. (1957) 571697  <u>Visserij-Nieuws, The Hague</u>, 9(9):138-41  Electrovisserij voor de praktijk (Electrofishing for the practice)</p> <p>F</p>
<p>Van Bergeijk, W.A. (1957) 571695  <u>Science</u>, 126:120  Lung volume of amphibian tadpoles</p> <p>Application of an equation to measure the lung volume of <u>Rana catesbeiana</u> and <u>Xenopus laevis</u>.</p> <p>FAO:shr F</p>	<p>Van Gelder, N. and 571698  K.A.C. Elliott (1957)  <u>Rev.canad.Biol.</u>, 16(4):522  Occlusion and production of factor I by brain slices</p> <p>Abstr. only. Experiments with crayfish brain extracts which inhibit activity of stretch-receptor neurone.</p> <p>FAO:sjh MF</p>



Van Landingham, J.W. (1957) 571700  
J.Cons.int.Explor.Mer., 22(2):174-9  
A modification of the Knudson method for  
salinity determination

A new adsorption indicator method for  
determining salinity of sea water is  
described. Experience over a period of  
twelve months has shown this method to  
be more trouble-free than the standard  
Mohr method.

GLK:sjh

M

Vargas, F.F. and 571701  
B.J. Concha (1957)  
Invest.zool.chil., 3:88-95  
Fisiología de las glándulas adrenales  
en el teleosteo Sicyases sanguineus  
(Physiology of the adrenal glands in  
the teleostean S. sanguineus)

An investigation of the physiological  
effects of adrenalectomy on S. sanguineus.

FiB:hr

M

Van Meel, L. (1957) 571700  
Bull.Jard.bot.Brux., 27(4):695-702  
Biddulphia sinensis R. Greville 1866 -  
Contribution à l'écologie d'une diatomée  
du plancton marin de la Mer du Nord  
(Biddulphia sinensis R. Greville 1866 -  
Contribution to the ecology of one  
diatom of the marine plankton of the  
North Sea)

Taxonomic description, distribution and  
abundance and its seasonal variation,  
1951-53, annual variation 1921-34.

FAO:sjh

M

Vargas, F.F. and 571703  
B.J. Concha (1957)  
Invest.zool.chil., 3:81-7  
Histología y técnica de extirpación de  
las glándulas adrenales en el teleosteo  
Sicyases sanguineus (Histology and  
method of extirpation of the adrenal  
glands of the teleostean S. sanguineus)

Anatomical and histological study with  
description of a surgical technique for  
adrenalectomy in the species.

FiB:hr

M

Vannucci, M. (1957) 571701  
Nature, Lond., 179:326  
Double monster ephyrae of Aurelia aurita

Describes two double monsters produced  
by normal scyphistoma taken from a tank  
in aquarium of Marine Station at Millport

FAO:efa

M

Vargues, H. (1957) 571704  
Bull.sta.Aquic.Pêche Castiglione, (8):  
59-71

Etude sur les organismes nitrificateurs  
des "Mattes" de Castiglione (Study of  
nitrificant organisms of "Mattes" of  
Castiglione)

A chemical study of oozes of "Mattes".

FAO:hr

M

Vargues, H. (1957) 571705  
Bull.Soc.Hist.nat.Afr.N., 48(5-6):373-6  
 Quelques aperçus concernant les phénomènes d'ammonification dans les boues marines provenant de la baie d'Alger  
 (Some reviews concerning the phenomena of ammonification on the marine sediments from the Bay of Algier)

Contains methods and results.

FAO:hr

M

Vedel Tøning, A. (1957) 571708  
Dansk FiskTid., 75(7):84-5  
 Danmarks fiskeri- og havundersøgelser  
 mangeartede virke i året 1956  
 (Various activities of Denmark's fisheries and marine investigations during 1956)

Popular account of the activities (Place investigations, investigations on mesh size, investigations on ganoids and clupeoids).

FAO:tl

M

Vasiliu-Suceveanu, N. 571706  
 and I. Radulescu (1957)  
Bul.Inst.Cerc.piscic.Roman., 16(2):87-8  
 Nota asupra endoparazitului Bunocotyle cingulata Odhner 1928 la pestii din Marea Neagra (Note on the endoparasite Bunocotyle cingulata Odhner 1928 in Black Sea fishes). Ru Fr

First finding of this trematode in Caspialosa pontica.

FAO:sjh

M

Vedel Tøning, A. (1957) 571709  
Dansk FiskTid., 75(9):109-12  
 Havundersøgelserne har bl. a. vist, at danske fiskere med flid undgår undermålskvillinger (The sea research has among other things shown that the Danish fishermen purposely avoid too small whittings)

Continuation of 571708.

FAO:tl

M

Vasserot, J. (1957) 571707  
Vie et Milieu, 8(2):127-72  
 Contribution à l'étude du comportement de capture des larves de l'odonate Calopteryx splendens (Contribution to the study of the behaviour during capture of larvae of Odonata Calopteryx splendens)

Describes the material and methods, the behaviour, and experimental analysis of the behaviour during capture.

FAO:hr

F

Veitser, Yu. I. (1957) 571710  
Energ. Byull., (5):22-5  
 Use of water of the Caspian Sea for the regeneration of cation exchangers

M

Velankar, N.K. (1957) 571711  
Indian J.Fish., 4(1):208-27  
Bacteria isolated from sea-water and  
marine mud off Mandapam (Gulf of Mannar  
and Palk Bay)

Lists and describes bacteria isolated  
during quantitative investigations of  
bacterial population of sea water,  
plankton and mud from inshore environment.

FAO:efa

M

Venkataraman, G.S. (1957) 571712  
Curr.Sci., 26(8):254  
A note on the occurrence of three-pored  
heterocysts in Mastigocladus laminosus  
Cohn

Morphological description.

FAO:glk

F

Verboke, J. (1957) 571713  
Résult.sci.Explor.hydrobiol.Kivu, Eduard  
and Albert, 3(2):183-203  
Chaoboridae (Diptera nematocera) -  
Stades immatures et adultes  
(Chaoboridae (Diptera nematocera) -  
Immature and adult stages)

F

Verboke, J. (1957) 571714  
Résult.sci.Explor.hydrobiol.Kivu, Eduard  
and Albert, 3(2):3-24  
Le régime alimentaire des poissons du  
lac Kivu (Congo Belge et Ruanda) et  
l'exploitation des ressources naturelles  
du lac (Feeding of fishes in Lake  
Kivu (Belgian Congo and Ruanda) and  
exploitation of the natural resources  
of this sea)

A study in which an evaluation of the  
principal sources of food in the lake and  
the utilization of it by the existing  
fishes leads the author to conclude  
that certain elements are not being fully  
utilized and suggests the introduction of

571714  
(Card 2)

several species that might utilize it.

FiB:wad

F

Vernet-Cornubert, G. (1957) 571716  
Bull.Inst.océanogr.Monaco, (1097):1-23  
Evolution du régénérat de la pince de  
Pisa tetraodon (Pennant) en fonction de  
la maturité sexuelle (Evolution of  
the regenerator of the claw of Pisa  
tetraodon (Pennant) in relation to the  
sexual maturity)

A study of the morphologic and biometric  
variations of the claw of females and  
males, the relation between the molting  
and regeneration, and the regenerator  
of the males and females.

FAO:hr

M



Vernet-Cornubert, G. (1957) 571717  
C.R.Acad.Sci., Paris, 244:1085-7  
Note préliminaire sur la transformation  
de la pince des mâles du crabe oxyrhynque  
Pisa tetraodon (Pennant) (Preliminary  
 note on the transformation of chelipeds  
 of the oxyrhynchis crab Pisa tetraodon  
 (Pennant) )

Content as per title.

FAO:efa

M

Vernon, E.H. and 571720  
 R.G. McMynn (1957)  
J.Fish.Res.Bd Can., 14(2):203-12  
Scale characteristics of yearling  
coastal cutthroat and steelhead trout

Some scale characteristics of 88  
 yearling coastal cutthroat trout  
 (Salmo clarki clarki) and 96 yearling  
 steelhead (Salmo gairdneri) were  
 compared in some detail. Scale counts  
 are compared; relation of circuli  
 number with scale diameter is analysed;  
 scale shape is discussed; relation of  
 scale size and fork length is measured  
 and an adjusted scale size is found.

GLK:glk

MF

Vernhot, S. (1957) 571718  
Bull.Com.cent.Océanogr., 9(9):500-7  
Sur certains phénomènes morphologiques et  
hydrodynamiques observés sur la côte  
languedocienne (On some morphological  
 and hydrodynamic phenomena observed on  
 the Longudock coast)

Littoral transfers by migration of sub-  
 marine dunes. Predominance of the action  
 of land breezes on the directions of  
 transfers in the Gulf of Lion and the  
 sinuosities of the beach.

FAO:glk

M

Vial, J.L. (1957) 571721  
Copeia, (2):143  
A new size record for Thamnophis  
marcianus Baird and Girard

Reports record, description and habitat  
 of specimen.

HR:efa

F

Vernon, E.H. (1957) 571719  
J.Fish.Res.Bd Can., 14:573-98  
Morphometric comparison of three races  
of kokanee (Oncorhynchus nerka) within  
a large British Columbia lake

An examination of morphometric features,  
 growth rate, vertebral count and  
 secondary sex characters, and a  
 discussion of the effects of environment  
 of anatomical features. A discussion  
 also of the evidence of genotypic  
 divergence resulting from isolation  
 of the rates.

GLK:glk

MF

Vibert (1957) 571722  
Plaisir de la pêche, Juin-Juill.-Août-Sept.  
Aménagement des eaux douces  
(Exploitation of fresh waters)

F



Vinokurov, A.A. and E.B. Dubrovskii (1957) <u>Vop.Ikhtiolog.</u> , 8:191-202	571723	Vivier, P. (1957) <u>Bull.franç.Piscic.</u> , 29:129-35 La protection des eaux contre la pollution en France (The protection of waters against pollution in France)	571726
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O znachenii nekotorykh ryboiadnykh ptits v rybnoy khoziaistve iugo-vostochnogo Priazovia (Concerning the importance of some fish-eating birds in the fish economy of the south-eastern Azov)

A report on pollution work conducted in France.

On numbers and distribution, nutrition and the relative importance of various fish and insects in the diet of different species of birds and on the part played by birds in the spread of fish diseases and parasites.	FAO:glk	M	FAO:hr	F
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Virginia. Commission of Fisheries (1957) <u>Division of Division and Printing, Richmond</u> , 61 p. Fifty-eighth and fifty-ninth annual reports of the Commission of Fisheries of Virginia for the fiscal year ending June 30, 1956 and June 30, 1957	571724	Vladimirov, V.I. (1957) <u>Zool.Zh.</u> , 36(8):1121-4 K biologicheskoi klassifikatsii ryb: prokhodnye i poluprokhodnye (On the biological classification of fishes: through-running and semi-through-running ones)	571727
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Personnel; expenses and receipts statistics; reports of Superintendent of hatcheries and of Virginia Fisheries Laboratory - spp. studied, public education and graduate instruction, recommendations for research and management list of publications since 1948.

Subclassification of anadromous and catadromous fishes.

FiB:sjh	MF	FAO:tl	MF
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Vivier, M. (1957) <u>Bull.franç.Pisc.</u> , 30(187):48-66 Communiqué. Comité scientifique de la Station Centrale d'Hydrobiologie appliquée (Biarritz, 11 mai 1957) (Communication. Scientific Committee of the Central Station of applied Hydrobiology. (Biarritz, 11 May, 1957) )	571725	Vladykov, V.D. (1957) <u>Centr.Dep.Fish.</u> , Quebec, 54:235-48 Distant recaptures of shad ( <u>Alosa sapidissima</u> ) tagged in Quebec	571728
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Reports on the activities of different hydrobiological stations.

Tabulation of recoveries; description of tag; account of water temperatures; discussion of recoveries with regard to the evidence they furnish on trend of migration.

FAO:hr	F	GLK:glk	MF
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Vladykov, V.D. (1957)	571729	Volkov, V.G. and	571732
<u>Fishes of Quebec</u> , (3)		B.V. Shekhvatov (1957)	
American lobster. <u>En</u> <u>Fr</u>		<u>Trud.Inst.Okeanol.</u> , 24:215	
		(Acoustical coupled high-speed bathy- thermograph). <u>Ru</u>	
Popular brochure with description of the species and notes on habitat, length and weight, spawning, food and growth.			

FiB:glk	M	MF
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Vladykov, V.D. (1957)	571730	Volpe, A.V. (1957)	571733
<u>Fishes of Quebec</u> , (2):4 p.		<u>Pan-Amer.Fisherm.</u> , 12(5):10-1	
Atlantic salmon. <u>En</u> <u>Fr</u>		Fingerprinting fish	
Popular brochure with description of the species and notes on habitat, length and weight, spawning, food and growth.		Popular account of tagging methods; age and growth determination; methods of recovery.	

FiB:glk	MF	FAO:sjh	MF
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Volckman, O.B. (1957)	571731	Volpe, E.P. (1957)	571734
<u>Brit.chem.Engng</u> , 2:146-8		<u>Tulane Stud.Zool.</u> , 5(9):207-25	
The practical application of electrodialysis to the desalting of brackish water		The early development of <u>Rana capito</u> <u>sevosa</u>	
		The eggs, tadpoles, and recently metamorphosed forms of <u>Rana capito sevosa</u> from Saint Tammany Parish, Louisiana have been described. The near-identity of the early stages of development of the sp. to the Florida <u>Rana capito sevosa</u> attests to their close affinity.	

MF	FAO:hr	F
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Von Bertalanffy, L. (1957) 571735  
Handb.Zool., Berl., 8(10):68 p.  
Wachstum (Growth)

An encyclopedic review of data and theory.

GLK:sjh

MF

Von Bertalanffy, L. (1957) 571736  
Quart.Rev.Biol., 32(3):217-31  
Quantitative laws in metabolism and growth

An illustrated review of a technique of evaluating growth data which is applied to fishery studies and in which many of the examples are of fish and other aquatic animals. Tabulates data on relations between metabolic rate and body size.

FAO:sjh

MF

Von Seydlitz, H. (1957) 571737  
Kurze Mitt.Inst.FischBiol.Univ.Hamburg, (7):40-4

Ein fund von Anarrhichas-larven (A discovery of Anarrhichas larvae)

Description of larvae obtained by hatching of eggs found on the west coast of Spitzbergen and identified as being Anarrhichas lupus. The conditions of hatching are discussed and the features of the specimens are compared with those reported for specimens taken on previous occasions.

FAO:glk

M

Voskresenskii, K.A. (1957) 571738  
Zool.Zh., 36(2):289-90  
Portativnye basseini dlia sodershaniia ryb i bespozvonochnykh (Portable basins for maintaining fishes and invertebrates)

Notes on rearing of fish and invertebrates in aquaria under natural conditions.

FAO:tl

F

Voss, G.L. and 571739  
C.R. Robins (1957)  
Mar.Lab.Univ.Miami, 57-15:11 p. (mimeo)  
The Charles F. Johnson Oceanic Gamofish Investigations - Progress Report No. 3 - Summary of investigations for the period comprising September 1956 through April 1957

Summarizes work under headings: Systematics; Nomenclature; Distribution; Growth; Tagging; Migrations; Spawning; Food; Proposed future work. Bibliography of papers on billfish and tuna issued by the laboratory.

SJH:sjh

M

Vucetic, T. (1957) 571740  
Acta adriat., 6:1-52  
Zooplankton investigations in the sea water lakes "Malo Jezero" and "Voliko Jezero" on the Island of Mljet (1952-1953)

Description of some environmental conditions, seasonal variations in volume; in number of organisms and species composition. Ecological notes on most abundant zooplankton organisms.

FAO:glk

MF

Wachtler, M. (1957) 571741  
Int.hydr.Rev., 34(2):117-20  
Navigation sans compas à l'aide du  
radiogoniomètre (Navigation without  
compass by means of radiogoniometry)

Description of the method.

Waldichuk, M. (1957) 571744  
J.Fish.Res.Bd Can., 14(3):321-486  
Physical oceanography of the Strait of  
Georgia, British Columbia

A descriptive and quantitative analysis  
of the physical oceanography of the  
area.

FAO:glk

M

GLK:tl

M

Wada, K. (1957) 571742  
Bull.Jap.Soc.sci.Fish., 23(6):302-5  
Laminary structures of cultured pearls  
observed with electron microscope -  
I. Nacreous layer pearl

Illustrated report on sections of  
Pinotada martensii pearls.

Waldo, E. (1957) 571745  
Louisiana Conserv., 9(6):8-9, 23  
The fishery biologist

Popularly written article describing the  
work of the fishery biologist with a  
special reference to work in Louisiana.

SJH:sjh

M

FAO:wad

MF

Wald, G., P.K. Brown 571743  
and P.S. Brown (1957)  
Nature, Lond., 180:969-71  
Visual pigments and depths of habitat of  
marine fishes

A comparison of rhodopsins in the rods  
of fishes with specific reference to  
difference in their wave-lengths at  
different depths.

Walish, H. (1957) 571746  
Fish.Bull., Haifa, (11):6-7  
(Fishing in the vicinity of Lake Tiberias  
springs). Iw

A note.

GLK:wad

M

SJH:sjh

F



Walker, A.M. (1957) 571747  
Nature, Lond., 180:228-9  
Statistical analysis of a random, moving  
surface

Review of 571023.

GLK

M

Wangersky, P.J. and 571750  
W.J. Cunningham (1957)  
Ecology, 38:136-9  
Time lag in prey-predator population models

Analysis of the equations resulting  
from the introduction of a time lag in  
the response of the predator to changes  
in the prey population shows an array  
of possible solutions. Discusses the  
determinants of the form of the  
equation and the possibility of  
introducing non-linear interactions.

FAO:glk

MF

Walker, F.T. and 571748  
W.D. Richardson (1957)  
J.Ecol., 45:225-32  
Survey of the Laminariaceae off the  
Island of Arran: changes from 1952 to  
1955

4 surveys of 1600 ha of sub-littoral in  
northern half of this Scottish island  
made in winters 1952-1955 showed  
seasonal and depth variations, and  
continuous annual decrease in density  
of algae, dominated by Laminaria saccha-  
rina Lamour.

FAO:sjh

M

Wasserman, A.O. (1957) 571751  
Copeia, (2):144-5  
Hybridization in three species of  
spadefoot toads

Brief notes on the development of  
crosses of Scaphiopus couchi ♂ ×  
S. hammondi ♂; S. couchi ♀ ×  
bombifrons ♂; and S. couchi ♀ ×  
S. hurteri ♂.

HR:efa

F

Walters, V. (1957) 571749  
Copeia, (1):60-1  
Protolophotus, a new genus of allotrio-  
gnath fish from the Oligocene of Iran  
Suggests assignment of fossil form to  
a separate genus. Incl. diagnosis of  
Lophotes elami Arambourg and description  
of the genus.

HR:efa

M

Watabe, N., G. Yoshii 571752  
and Y. Okada (1957)  
Bull.Jap.Soc.sci.Fish., 23(3):139-43  
Studies of shell formation in young  
pearl oyster, Pinctada martensii  
(Dunker), using Ca<sup>45</sup> - Comparison of  
the uptake of Ca<sup>45</sup> from sea water and  
food

Ca<sup>45</sup> added to filtered and unfiltered  
(i.e. containing plankton) batches of  
sea water; oysters put in after  
equilibrium established, and later  
radioactivity of gills and mantle  
examined.

SJH:sjh

M

Waters, T.F. and  
R.C. Ball (1957)  
New Scient., 2(51):42  
Rescue at sea

Proposed use of underwater sound as  
distress signal.

FAO:sjh

M

Watts, J.C.D. (1957) 571756  
Bull.Inst.franç.Afr.noire, Ser.A, 19:  
1020-9

The chemical composition of the bottom  
deposits from the Sierra Leone River  
estuary

A preliminary statement on the con-  
centration of organic matter in the  
bottom deposits.

FAO:hr

MF

Waters, T.F. and 571754  
R.C. Ball (1957)  
J.Wildlife Mgmt, 21(4):385-91  
Lime application to a soft-water,  
unproductive lake in northern Michigan

Four year study showed effect of  
artificial alkalinity change on plankton  
blooms and on growth of Myriophyllum  
and of stunted Perca flavescens.

FAO:sjh

F

Watts, J.C.D. (1957) 571757  
Bull.Inst.franç.Afr.noire, 19:539-47  
The chemical composition of west  
African fish. 1. The west African shad,  
Ethmalosa dorsalis (C. and V.) from  
the Sierra Leone River estuary

Analysis of variation of proximate  
composition throughout the year.

FAO:glk

MF

Watson, K.S. (1957) 571755  
Sewage industr.Wastes, 29:901-6  
Waste treatment in the atomic age

MF

Waugh, G.D. (1957) 571758  
Fish.Invest., Lond., Ser.II, 21(1):1-47  
Oyster production in the rivers Crouch  
and Reach, Essex from 1950 to 1954

Relation of hydrographic conditions  
to spatfall; food supply; relation of  
breeding stock-size to larval production;  
winter losses; effect of barnacles on  
set of spat; description of spat  
collectors and methods of recording  
spatfall.

FAO:sjh

MF

Waugh, G.D. (1957)  
Now Scient., 3(58):10-2  
Oysters in Britain

571759

Short illustrated article on the biology of and fisheries for, Ostrea edulis and Gryphaea angulata.

FAO:sjh

M

Weise, J.G. (1957)  
Ecology, 38:195-204

571762

The spring cave-fish, Chologaster papilliferus, in Illinois

Occurrence, behaviour, temperature tolerance, food, reproduction; analysis of rapids community.

FAO:sjh

F

Weeks, W.F. and  
O.S. Lee (1957)

571760

Paper presented at the Thirty-Eighth Annual Meeting, Washington, D.C., April 29 - May 2, 1957

Observations on the growth of sea ice at Hopedale, Labrador

M

Weiss, C.W. and  
J.L. Botts (1957)

571763

Sewage industr.Wastes, 29:810-8

Factors affecting response of fish to toxic materials

Tests of effect of isopropyl methyl-phosphonofluoridate (Sarin) on Pimphales promelas, Lepomis cyanellus and Carassius auratus, and its relation to temperature and O<sub>2</sub> content of water.

:sjh

F

Woertman, J. (1957)  
J.Glaciol., 3:38-42  
Deformation of floating ice shelves

571761

Weiss, H.V. and  
W.H. Shipman (1957)  
Science, 125(3250):695

571764

Biological concentration by killer clams of cobalt-60 from radioactive fallout

Short note on concentration of cobalt by killer clam.

M

FAO:tl

MF

Welander, A.D. (1957) 571765  
Fish. Res. Pap. Wash. Dep. Fish., 2(1):60-6  
Rare fishes from the eastern North  
Pacific Ocean

Ill. descriptions of trawl-caught  
specimens of Clidoderma asperrimum  
(T. and S.), Anotopterus pharao  
Zugmayer, and Caristius macropus  
(Bellotti).

FAO:sjh

M

Wells, H.W. (1957) 571763  
Ecology, 38:123-8  
Abundance of the hard clam Mercenaria  
mercenaria in relation to environmental  
factors

Examines the relations of this clam  
with bottom type, current, vegetation  
temperature, salinity, depth of water  
and fishing pressures.

FAO:sjh

M

Welander, P. (1957) 571766  
Tellus, 9:45-52  
Wind action on a shallow sea: some  
generalizations of Ekman's theory

The theory has been extended to a  
shallow sea, for which the Ekman "depth  
of frictional influence"  $d$  is comparable  
to the actual depth  $h$ . It is pointed out  
that the wind-stress divergence may be  
of the same importance as the wind-  
stress curl in this case.

FAO:glk

M

Went, A.E.J. (1957) 571769  
Irish Nat. J., 12:177-82  
The pike in Ireland

Summarizes the evidence for the pike  
having been introduced in Ireland  
during the Middle Ages and spread over  
the country especially during the past  
two hundred years.

:jae

F

Welle-Strand, E. (1957) 571767  
Dansk FiskTid, 75(2):15  
Norsk havforsknings naeste storopgave  
vil blive smaasildsundersogelser (Next  
task for the Norwegian oceanographical  
investigation will be the investigation  
of small (juvenile) herring)

Plans for the future works on herring  
investigations in Norway.

FAO:tl

M

Went, A.E.J. (1957) 571770  
Nature. Lond., 180:789-90  
Biology of the salmon

A report on a symposium by this name  
held 10 Sept. 1957 by Section D (Zoology)  
of the British Association meeting in  
Dublin, which discusses the following  
papers: 571574, 571635, 571650 and  
571771.

GLK:wad

MF



Went, A.E.J. (1957) 571771  
Paper presented at the Symposium of the  
British Association meeting in Dublin,  
Sect.D (Zool.) 10/9/57  
Salmon investigations in Ireland, with  
particular reference to the River Shannon

MF

Wesenberg-Lund, E. (1957) 571774  
Bull.Sea Fish.Res.Sta., Israel, (14):14p.  
Contributions to the knowledge of the  
Red Sea - No. 3 - Sipunculoidea and  
Echiuroidea from the Red Sea

Description and figures of specimens,  
with notes on distribution and general  
biology. Bibliography and table of  
comparative distributions.

SJH:sjh

M

Went, A.E.J. and 571772  
E. Twomey (1957)  
Irish Nat.J., 12:205-6  
Notes on Irish char, Salvolinus colii  
Gunthor: VI.

Notes on char from Loughs Corrib and  
Fad, with descriptions and measurements.

:jae

F

Wharton, J. (1957) 571775  
Swom, Earl Gregg, Williamsburg, Virginia,  
78 p.  
The bounty of the Chesapeake; fishing  
in colonial Virginia

MF

Wesenberg-Lund, E. (1957) 571773  
Bull.Res.Coun.Israel, 6B(3-4):193-200  
Sipunculoidea from the coast of Israel  
Illustrated description of Phascolosoma  
granulatus, Aspidosiphon mülleri and  
Aspidosiphon elegans.

Wheatland, A.B. (1957) 571776  
Challenger Soc., 3(9):31  
The Thames estuary and its pollution -  
II. Oxidation and reduction processes

Abstr. of paper read at Joint Meeting  
of the Water Pollution Research  
Laboratory, Stevenage; and Zoological  
Society of London, Regent's Park,  
London. 24th and 25th January, 1957.  
Content as per title.

FM:sjh

M

SJH cfa

MF

White, J.H. (1957) 571777  
Bull. Fish. Res. Bd. Can., (116):63 p.  
 Food and natural history of mergansers  
 on salmon waters in the maritime  
 provinces of Canada

Results of long-term observations and  
 experiments concerning principally  
Mergus merganser americanus and to a  
 lesser extent M. serrator and Lophodytes  
cucullatus.

GLK:wad

MF

Whitley, G.P. (1957) 571780  
Aust. Zool., 12:251-61  
 Ichthyological notes

A taxonomic list of marine and fresh-  
 water species with notes on their  
 distribution, and a key to the fresh-  
 water Chandidae of Australia.

FAO:hr

MF

White, J.H. and 571778  
 B. Komarovsky (1957)  
Fish. Bull., Haifa, (13):14-6  
 (The protection of fishing nets by  
 preservatives using cutch). Iw En

Account of field experiments.

SJH:sjh

M

Whitley, G.P. (1957) 571781  
Aust. Zool., 12:293-4  
 An interesting leatherjacket

White, W.A. and 571779  
 G.B. Maxey (1957)  
Paper presented at the Thirty-Eighth  
Annual Meeting, Washington, D.C.,  
April 29 - May 2, 1957  
 A possible mechanism for the concentra-  
 tion of brines

M

Whitley, G.P. (1957) 571782  
Aust. Zool., 12:293  
 The status of Algoa (Pisces: Coryphaeni-  
 dae)

M

Whitney, G.G., Jr. (1957) 571783

J.Cons.int.Explor.Mor., 22(2):167-73

Factors affecting the accuracy of  
thermometric depth determinations

The technique of thermometric depth  
determination is briefly described, with  
comments on design factors affecting  
the magnitude of the pressure factor Q.  
The technique of laboratory tests of  
pressure factor determination is briefly  
described.

GLK:sjh

M

Wiegol, R.L. and

571786

J. Kukk (1957)

Trans.Amer.geophys.Un., 38(5):667-74

Wave measurements along the California  
coast

The heights and periods of waves were  
measured at Davenport, California,  
between July 1953 and November 1954,  
mostly by means of a surface-type  
wave gage. Certain results are compared  
with similar published data obtained  
by bottom pressure recorders.

FAO:t1

M

Whittingham, C.P. and 571784

A.H. Brown (1957)

Plant Physiol., 32 (Suppl.):xv

Oxygen evolution from algae illuminated  
by short and long flashes

Abstr. of paper presented at the meeting  
of the American Society of Plant  
Physiologists and the Physiological  
Section Botanical Society of America,  
Stanford, California, August 25-29, 1957.

FLO

MF

Wiegol, R.L. et al. (1957) 571787

Tech.Rep.Calif.Waves Res.Lab., Ser. 99,  
2

Water gravity waves generated by a  
moving low pressure area

M

Wiegol, R.L. (1957) 571785

Trans.Amer.geophys.Un., 38(5):760

Discussion of "Properties of shoaling  
waves by theory and experiment"

Discussion on original article by P.S.  
Egelson, Trans.Amer.geophys.Un., 37:  
265-72 (1956), on the Stokes' third  
approximation for wave celerity in  
relatively shallow water.

FAO:t1

M

Wilder, D.G. and

571788

D.W. McLeese (1957)

Progr.Rep.Atl.Cst Stas, (66):24-6

How temperature and crowding affect the  
holding of lobsters in artificial sea  
water. Fr

Experiments on mortality of Homarus  
americanus in tanks.

GLK:sjh

M

Wilke, F. (1957) 571789  
J.Wildlife Mgmt, 21:241-2  
Food of sea otters and harbor seals at  
Amchitka Island

Stomach contents analysis of Enhydra  
lutaris and Phoca vitulina richardi.

FAO:sjh

M

Wilke, F. and 571790  
K.W. Kenyon (1957)  
J.Wildlife Mgmt, 21:237-8  
The food of fur seals in the eastern  
Bering Sea

Analysis of stomach contents of samples  
of Callorhinus ursinus taken in Bering  
Sea, July 1955.

FAO:sjh

M

Willgoos, J.F. (1957) 571791  
Nature, Lond., 179:163-4  
Occurrence of the leathery turtle in the  
northern North Sea and off western  
Norway

Four records of Dermochelys coriacea (L.)  
in 1956.

GLK:wad

M

Williams, A.J. and 571792  
D.E. Cartwright (1957)  
Trans. Amer. Geophys. Un., 38(6):864-6  
A note on the spectra of wind waves

Attention is drawn to a useful non-  
dimensional parameter which allows the  
width of the energy spectrum of waves  
to be taken into account in predicting  
some of their statistical properties.  
This parameter is evaluated for the  
spectra of wind generated waves proposed  
by Darbyshire and by Neumann.

TL:tl

M

Wilson, K. (1957) 571793  
Ann. Bot., Lond., 21:1-11  
Extension growth in primary cell walls  
with special reference to Elodea cana-  
densis

Quantitative study of distribution of  
perforations in walls of cortical  
parenchyma and discussion of data in  
relation to general problem of cell  
extension.

FAO:efa

F

Wilson, M.S. (1957) 571794  
Pacif. Sci., 11(3):265-74  
Redescription of Teredicola typica C.B.  
Wilson (Crustacea: Copepoda)

A review and amplified description with  
ill. of all the appendages.

FAO:hr

M



Wimber, P.S. and  
E.D. Avari (1957)  
J.Beng.nat.Hist.Soc., 29:33-6  
General information on fishing in North  
Bengal

571795

Witmer, T.R. (Ed.) (1957) 571798  
U.S.Department of the Interior, 760 p.  
Documents on the use and control of the  
waters of interstate and international  
streams. Compacts, treaties and  
adjudications.

M

F

Winn, H.E. (1957) 571796  
Brit.J.Anim.Behav., 5(1):25-8  
Egg site selection by three species of  
darters (Pisces, percidae)

Series of experiments show that Etheostoma  
blennioides selects algae or other  
similar plants for egg deposition mainly  
on the basis of texture and not of smell  
or colour. Estheostoma caeruleum and E.  
spectabile have a slight difference in  
size of gravel utilized for deposition of  
eggs.

Woelke, C.E. (1957) 571799  
Fish.Res.Pap.Wash.Dep.Fish., 2(1):35-42  
The quality of seed oysters from Japan

Nine years of records of Crassostrea  
gigas before export from Japan to  
Washington including estimates of  
predator mortality.

SJH:sjh

F

FAO:sjh

M

Winn, H.E. (1957) 571797  
Science, 125:885-6  
Behaviour, sexual dichromatism, and species  
of parrot fishes

Pronounced sexual dimorphism among species  
of parrot fishes (Scaridae) caused  
recognition of specific status to males  
and females of the same species. By  
studying spawning aggregations, injecting  
testosterones into females and comparing  
morphometric characteristics, a number  
of different species were found to be  
different sexes of the same form.

Wolf, K. (1957) 571800  
Progr.Fish Cult., 19(1):14-8  
Bluc-sac disease investigations: micro-  
biology and laboratory induction

A review of the previous work, account of  
new experiments, and a theory that the  
disease is a result of metabolic wastes;  
recommendations for control are given.

FAO:hr

M

WAD:wad

F

Wolf, K. and 571801  
C.E. Dunbar (1957)  
Bact.Proc., Abstr., (A57):25  
Strain differences in a fish-pathogenic  
Corynebacterium

Wood, E.M. and 571804  
W.T. Yasutake (1957)  
Progr.Fish Cult., 19(2):64-7  
Acute sulfamethazine toxicity in young  
salmon

Describes its pathology and discusses  
factors in etiology of losses among fish  
treated with sulfonamides, with specific  
reference to Oncorhynchus.

MF

WAD:wad

F

Wolfs, J. (1957) 571802  
Résult.sci.Explor.hydrobiol.Kivu, Eduard  
and Albert, 3(2):171-82  
(Culicidae (Diptera nematocera) ). Fr

Wood, E.M. and 571805  
W.T. Yasutake (1957)  
Progr.Fish Cult., 19(1):7-13  
Histopathology of fish: V. Gill disease

Reviews the controversy concerning  
presumed causative agents (bacterial  
infectious nutritional deficiency) of  
this important disease and introduces  
new evidence which advances the theory  
that both infectious and nutritional  
agents are operative simultaneously.

F

WAD:wad

F

Wolcott, W.S. (1957) 571803  
Copeia, (1):1-10  
Comparative osteology of serranid fishes  
of the genus Roccus (Mitchill)

A comparative osteological study of  
Roccus saxatilis, R. chrysops, R. ameri-  
canus, R. interruptus, and R. labrax  
which indicates that biologically the  
species are of a single genus. Sub-  
genera may be defined by combinations of  
skeletal characters.

Wood, F.G., Jr. (1957) 571806  
Copeia, (2):153-4  
Southern extension of the known range  
of the basking shark, Cetorhinus maximus  
(Gunnerus)

Reports record of specimen that extends  
known southern range of this sp.

HR:hr

MF

HR:efa

M

<p>Wood, P.C. (1957) 571807  <u>J.Cons.int.Explor.Mer.</u>, 22(2):200-7  Factors affecting the pollution and self-purification of molluscan shellfish</p> <p>A description of the natural processes of pollution and cleansing in oysters (<u>Ostrea edulis</u>) and mussels (<u>Mytilus edulis</u>) in an estuary subject to intermittent pollution. Temperature affects seasonal cycles.</p>	<p>Wordie, J.M. (1957) 571810  <u>Mar.Obs.</u>, 27(175):31-3  Ice in the Weddell Sea</p> <p>Discussion on the distribution of the pack-ice in this area.</p>
<p>GLK:glk MF</p>	<p>FAO:tl M</p>
<p>Woodburn, K.D. et al. (1957) 571808  <u>Tech.Ser.Fla Bd Conserv.</u>, (21):33 p.  The live bait shrimp industry of the west coast of Florida</p>	<p>Worrell, E. (1957) 571811  <u>Aust.Zool.</u>, 12(3):201-10  A new water-monitor from northern Australia</p> <p>A description of the new species of lizard <u>Varanus bulliwallah</u>.</p>
<p>M</p>	<p>FAO:hr F</p>
<p>The Woods Hole Oceanographic Institution (1957) 571809  <u>Coll.Repr.Woods Hole oceanogr.Instn.</u>, 32 p.  Report for the year 1956</p> <p>Lists of trustees, members of corporation and research staff; reports of Director on research (with list of publications) and of Treasurer.</p>	<p>Worthen, E.P. and F.S. Barbour (1957) 571812  <u>U.S.P.</u> 2,759,882  Fresh-water preparation from salt water</p>
<p>FAO:sjh M</p>	<p>MF</p>

Worzel, J.L. (1957) 571813  
Paper presented at the Thirty-Eighth  
Annual Meeting, Washington, D.C.,  
April 29 - May 2, 1957  
 Tests of graf sea gravimeter

M

Wurtz, A. (1957) 571816  
Bull.franç.Piscic., 184:89-128  
 Champignons, bactéries et algues des  
 eaux polluées (suite) (Fungi,  
 bacteria and algae of polluted waters)

A taxonomic and ecological study.  
 Continued from No. 182, 1956.

FAO:hr

F

Wright, C.A. (1957) 571814  
Bull.Brit.Mus.(nat.Hist.), 20 p.  
 Guide to molluscan anatomy for  
 parasitologists in Africa

MF

Wyburn, G.M. and 571817  
 P. Bacsich (1957)  
New Biol., 24:50-9  
 The mast cell

Ill. review of their occurrence and  
 function throughout the animal kingdom,  
 including salmon, sponges, echinoderms,  
 crayfish.

GLK:glk

MF

Wright, C.A. (1957) 571815  
Bull.Brit.Mus.(nat.Hist.),  
 5(1):29 p.  
 Studies on the structure and taxonomy  
 of Bulinus jousseaumei (Dautzenberg)

F

Yabuta, Y. and 571818  
 M. Yukinawa (1957)  
 (Age and growth of yellowfin tuna  
 (Neothunnus macropterus) in Japanese  
 waters by size frequencies). Ni En

Growth estimated from length frequencies  
 in Japanese catches 1953-55. Comparison  
 with results of other workers.

FAO:sjh

M



Yabuta, Y. and M. Yukinawa (1957) <u>Rep.Nankai reg.Fish.Res.Lab.</u> , 5:134-7 (The latitudinal changes of the sizes of yellowfin tuna). <u>Ni</u> En	571819	Yamanaka, H. (1957) <u>Rep.Nankai reg.Fish.Res.Lab.</u> , 5:158-64 (On the currents in the Solomon Seas from the drift of the tuna long-line between June and August). <u>Ni</u> En	571822
--	--------	---	--------

Length frequencies vary with latitude  
in summer but not in winter; relation  
to ocean currents.

Current maps obtained from directions of  
laying of lines.

FAO:sjh

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FAO:sjh

M

Yabuta, Y. and M. Yukinawa (1957) <u>Rep.Nankai reg.Fish.Res.Lab.</u> , 5:119-26 (Studies on the yellowfin tuna. I. Seasonal difference of size compositions in the adjacent waters of the west Carolines). <u>Ni</u> En	571820
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Recruitment, growth and migration data;  
relation of current systems.

Yamasaki, H., M. Sitanaka and A. Fukuhara (1957) <u>Bull.Jap.Soc.sci.Fish.</u> , 23(4):195-8 Studies on the ecology of <u>Conchocelis</u> - phase of <u>Porphyra tenera</u> Kjellm - IV. On the influence of the diluted sea water on the growth and maturity of <u>Conchocelis</u>	571823
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Report of controlled experiments with  
cultures.

FAO:sjh

M

SJH:sjh

M

Yaldwyn, J.C. (1957) <u>Trans.roy.Soc.N.Z.</u> , 84(4):883-95 Studies on <u>Palaemon affinis</u> M. -Edw. 1837 (Crustacea, Decapoda, Natantia). Part II. Variation in the form of the rostrum	571821
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Nature of variation is described, and  
the causes of extreme forms discussed;  
range of genetic rostral variation is  
described.

Yanagimachi, R. (1957) <u>Bull.Jap.Soc.sci.Fish.</u> , 23:81-5 Studies of fertilization in <u>Clupea</u> <u>pallasii</u> - IV. Some properties of the sperm-stimulating factor in the micropyle area of the mature egg. <u>En</u> <u>Ni</u>	571824
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Micrurgical and chemical study of a  
factor bound to egg-membrane which causes  
quiescent spermatozoa to become active if  
brought near it.

FAO:glk

M

SJH:sjh

M

Yanaginachi, R. (1957) 571825  
Bull.Jap.Soc.sci.Fish., 23:290-4  
Studies on fertilization in Clupea  
pallasii - V. The role of calcium ions  
in fertilization and development

Reports experiments with artificial  
fertilization under various conditions.

SJH:sjh

M

Yashouv, A. (1957) 571828  
Bamidgeh, 9:32-42  
The Fish Culture Research Station - Dor  
(Annual Report for the year 1956)

A review of work and achievements, with  
short accounts of work done by each  
staff member.

WAD:sjh

F

Yaphe, W. (1957) 571826  
Canad.J.Microbiol., 3(7):987-93  
The use of agarase from Pseudomonas  
atlantica in the identification of agar  
in marine algae (Rhodophyceae)

An extracellular hydrolase, specific  
for agar, was prepared from Pseudomonas  
atlantica.

FAO:tl

M

Yashouv, A. (1957) 571829  
Fish.Bull., Haifa, (11):7  
(Contribution to the knowledge of Lake  
Tiberia carps). Iw

A note.

SJH:sjh

F

Yapp, W.B. and 571827  
G.H. Bourne (Ed.) (1957)  
Symp.Inst.Biol., (6):128 p.  
The biology of ageing

Report of a symposium dealing with  
ageing in bacteria, high plants and  
animals and in relation to metabolism  
and other physiological aspects.  
Includes papers by Sinclair, Comfort  
and Bourlière, which mention ageing of  
aquatic organisms (see 570181, 570318  
and 571477).

GLK:glk

MF

Yashouv, A. (1957) 571830  
Fish.Bull., Haifa, (14):25-31  
(The state of Acanthobrama fishery in  
Lake Tiborias during 1949-1953). Iw  
En

Catch and effort statistics of a method  
of fishing for A. terrae sanctae Steinitz  
( 'Tarith' ). Abundance index; catch  
composition, incl. data for Tilapia spp.  
Clarias lazera, Varichorinus sp., Barbus  
canis and B. longiceps.

SJH:sjh

F

Yentsch, C.S. (1957) 571831  
Nature, Lond., 179:1302-4  
A non extractive method for the quantitative estimation of chlorophyll in algal cultures

Description of the use of millipore filter for measuring of chlorophyll.

GLK:glk

M

Yeo, S.A. (1957) 571832  
Challenger Soc., 3(9):35  
The problem of wind drift near a free water surface

Abstr. of paper read at Joint Meeting of the Water Pollution Research Laboratory, Stevenage; and Zoological Society of London, Regent's Park, London. 24th and 25th January, 1957. Account of observations made in King George VI Reservoir, on the drift of bodies with different trajectories.

SJH:efa

M

Yokota, T. (1957) 571833  
Rep.Nankai reg.Fish.Res.Lab., 5:1-16  
(Stock analysis of Sardinops melano-  
sticta (Temminck and Schlegel). Ni  
En

Fishing and natural mortality coefficients calculated for O and I groups, using echo-sounder and purse-seine catches and effort.

FAO:sjh

M

Yokota, T. (1957) 571834  
Rep.Nankai reg.Fish.Res.Lab., 5:17-8  
On survival rate of fry of Iwashi fishes

Mortality estimate from length composition and growth rate data for fry of Engraulis japonicus taken in Hyûga Nada at 42 stations in 1950-55.

FAO:sjh

M

Yonge, C.M. (1957) 571835  
Discovery, 18:255-6  
Neopilina: survival from the palaeozoic

Description and significance of new molluscan genus found at depth of 2 miles off West Mexico by GALATHEA, 6/5/52.

FAO:sjh

M

Yoshida, H. and T. Ito (1957) 571836  
J.Shimonoseki Coll.Fish., 6(2):261-70  
Fish fauna of the Japan sea

List of marine fishes of Japan.

FAO:sjh

M

Yoshida, K. (1957) 571837  
Geophys.Notes, Tokyo, 10(1)  
A note on the pressure changes of the  
two-layer ocean

M

Young, E.C. (1957) 571840  
J.Fm Econ., 39:249-52  
Discussion: ten years of F.A.O.  
statistics and economics training  
centers

Discussion of 570500.

FAO:sjh

MF

Yoshihara, T. (1957) 571838  
Bull.Jap.Soc.sci.Fish., 22:618-20  
(On the type of frequency curve of the  
catch. II.) Ni En

When the catch is distributed by the  
exponential distribution, the logarithm  
of the catch may be represented by a  
frequency curve which is very close  
to the logarithmic normal distribution  
curve.

SJH:sjh

MF

Yusa, T. (1957) 571841  
Bull.Hokkaido reg.Fish.Res.Lab., 15:1-14  
Eggs and larvae of flatfishes in the  
coastal waters of Hokkaido. I. Embryonic  
development of the starry flounder  
Platichthys stellatus (Pallas)

Eggs of fish caught by gill-nets at  
Hokkaido in March 1954 were artificially  
fertilized, and the development of the  
larvae observed. Embryological details  
are described and illustrated and the  
relation of development rates of  
temperature and other factors is  
discussed.

FAO:sjh

M

Yoshihara, T. and 571839  
J. Fukioka (1957)  
Bull.Jap.Soc.sci.Fish., 22:641-4  
(The toxicity of chemicals on fish. II.  
The estimation of the effectiveness of  
insecticides on the young carp, Cyprinus  
carpio Linne). Ni En

Experiments on mortality caused by endrin,  
aldrin, dieldrin, spadrin, rotenone,  
D.D.T., and B.H.C. Relation to  
concentration and time of exposure.

SJH:sjh

F

Yusa, T. (1957) 571842  
Bull.Hokkaido reg.Fish.Res.Lab., 15:15-22  
(Eggs and larvae of flatfishes in the  
coastal waters of Hokkaido. II. Early  
development of the flatfish Lepidopsetta  
mochigarei Snyder). Ni En

Eggs of fish caught by gill-nets at  
Hokkaido in January 1955 were artificially  
fertilized, and the development of the  
larvae observed. Embryological details  
are described and illustrated and the  
relation of development rates of  
temperature and other factors is  
discussed.

FAO:sjh

M



Zahl, P.A. and 571843  
J.J.A. McLaughlin (1957)  
Nature, Lond., 180:199-200  
Isolation and cultivation of zooxanthol-  
lae

Describes successful methods of culture  
of Scyllaea (from a nudibranch), Casso-  
peia (a scyphozoan jellyfish) and Condy-  
lactis (an anemone) from waters around  
Bimini, British West Indies, in  
variations of new synthetic marine media.

GLK:sjh

M

Zaneveld, J.S. (1957) 571846  
Paper presented at the Inter-Island  
Marine Biological Conference, March  
31 - April 6, 1957  
A Lithothamnion bank near Bonaire  
(Netherlands Antilles)

History of earlier investigations.  
Description of the bank and of its  
location.  
Abstract in "Report by the Institute  
of Marine Biology, University of Puerto  
Rico".

HR:glk

M

Zaitsev, V.P. (1957) 571844  
Fish Ind., Moscow, (11):26-30  
(40 years of fishery science). Ru

Zaneveld, J.S. (1957) 571847  
Paper presented at the Inter-Island  
Marine Biological Conference, March  
31 - April 6, 1957  
Micro-atolls in the Netherlands Antilles

Reviews of past work. Description of the  
atolls and of forces determining their  
characteristics.  
Abstract in "Report by the Institute  
of Marine Biology, University of Puerto  
Rico".

FAO

MF

HR:glk

M

Zanandrea, G. (1957) 571845  
Nature, Lond., 179:925-6  
Neoteny in lamprey

A record of sexual maturity in ammocoetes  
of Lampetra.

Zaorski, R. (1957) 571848  
Prace Inst.morsk.Gdansk, (9):31-50  
Ochrona biologicznych zasobow morza w  
umowach miedzynarodowych (Protection  
of maritime biological resources as  
provided for in international agreements)  
En Ru

Origin of the problem; legal assumptions;  
evolution of treaty law; realization of  
the protection scheme in international  
agreements; carrying out of agreements;  
trends of development; sources and  
literature.

GLK:glk

F

FAO:glk

M

<p>Zeigler, J.M., W.D. Athearn 571849 and H. Small (1957) <u>Deep-Sea Res.</u>, 4(4):238-49 Profiles across the Peru-Chile trench</p> <p>Description of the bottom topography and notes on the sediments found in the trench.</p> <p>GLK:tl M</p>	<p>Zotin, A.I. (1957) 571852 <u>C.R.Acad.Sci.U.R.S.S.</u>, 115(5):1040-3 <u>Potreblenie vody iz okruzhaiushchei sredy i obrazovanie polostei u zarodyshei sevriugi</u> (Water uptake from the surrounding medium and formation of cavities in embryos of <u>Acipenser stellatus</u>)</p> <p>FAO F</p>
<p>Zhukov, E.V. (1957) 571850 <u>Zool.Zh.</u>, 36(6):840-6 Novye rody i vidy digeneticheskikh sosul'shchikov ryb dal'nevostochnykh morei (New genera and species of trematodes parasites of fish in the Far Eastern seas)</p> <p>Describes two genera and five spp. of trematodes parasitizing fishes dwelling in the Sea of Japan and in the South- Kuril shallow waters.</p> <p>FAO:glk M</p>	<p>Zweifel, R.G. (1957) 571853 <u>Copeia</u>, (2):78-83 A new frog of the genus <u>Rana</u> from Michoacán, Mexico</p> <p>A taxonomic description of <u>Rana dunni</u> which is compared to the related neighbouring forms <u>R. montezumae</u> and <u>R. megapoda</u>.</p> <p>HR:hr F</p>
<p>Zobell, C.E. and 571851 R.Y. Morita (1957) <u>J.Bact.</u>, 73:563-8 Barophilic bacteria in some deep sea sediments</p> <p>M</p>	<p>Anonymous (1957) 571854 <u>Progr.Fish Cult.</u>, 19(2):75 Acceleration of spawning of adult salmon</p> <p>Brief description of effect of light using <u>Oncorhynchus</u>.</p> <p>WAD:wad F</p>

Anonymous (1957) 571855  
Comm.Fish.Rev., 19(2):13-4  
Anchovies abundant in southern California waters

The catch of Engraulis mordax in Californian waters is regulated by law. The fishing pressure on the stocks of the species has not yet shown to be strenuous and the catches have been less than the maximum set by regulations.

FAO:sjh

M

Anonymous (1957) 571858  
Svensk FiskTidskr., 66:26-7  
Bergeforsens laxfiske och laxodling (Salmon fishery and hatchery at Bergefors)

Description of a modern hatchery.

FAO:tl

F

Anonymous (1957) 571856  
Int.hydr.Rev., 34(2):145-6  
Appareil de prise de vues de côte, type service hydrographique japonais (Apparatus for taking photographs of the coast, Japanese hydrographic service type)

Construction; ill.

FAO:glk

M

Anonymous (1957) 571859  
Qd Fish., (9):1-5  
Biological notes  
Notes on Psettodes erumei and Chrysophrys auratus.

GLK:hr

M

Anonymous (1957) 571857  
Dansk FiskTid, 75(2):18-9  
Det belgiske saltvandsfiskeri drives under tre forskellige former (The Belgian sea fisheries are carried out in three different forms)

Short review of Belgian fisheries.

FAO:tl

M

Anonymous (1957) 571860  
Qd Fish., 6:1-2  
Biological notes  
A record of catches of "ghost grinner", Harpadon translucens, in Australia.

GLK:hr

M

Anonymous (1957) 571861  
New Scient., 3(57):16  
Bottom warmth for surface thaw

Note on development and application of methods to bring warm bottom water of a frozen lake to the surface by aeration, and thus melting the ice.

FAO:sjh F

Anonymous (1957) 571864  
Comm.Fish.Rev., 19(12):71  
Clarification of fish names in article on "Fisheries of Black and Marmara seas"

Scientific and common names given in addendum to Comm.Fish.Rev., June 1957, : 56-62.

FAO:sjh M

Anonymous (1957) 571862  
Trade News, 10(3):4  
Canada's sardine industry

Short ill. account of fishery of young herrings in New Brunswick.

WAD:sjh M

Anonymous (1957) 571865  
Int.hydr.Rev., 34(2):37-42  
Correction des sondages par écho (Correction of echo-soundings)

Method employed in USSR of introducing a correction which is the algebraic sum of a correction for error of level and a correction of the echo, the latter being made either by calibration or by reference to hydrological data.

FAO:glk M

Anonymous (1957) 571863  
Canad.Fisherm., 44(11):4-10  
Canadian fisheries resources - The prospects

Estimates of the quantities of the various stocks of aquatic organisms available are tabulated, together with statistics of the current average annual catch taken from these stocks by the fishing industries of Canada and other countries.

FAO:hr MF

Anonymous (1957) 571866  
Progr.Fish Cult., 19:172-8  
The Cortland, New York, Fishery Station: a summary of twenty-five years work

The history, 1930-1957, of this experimental station devoted primarily to studies of trout nutrition.

WAD:wad F



Anonymous (1957) 571867  
Industr.pesq., 31(733):13  
Los crustaceos de la costa occidental  
africana (The crustaceans of the  
west coast of Africa)

Lists the species of economic importance,  
with notes on their distribution and  
catch as follows: Palinurus regius,  
P. mauretanicus, Penaeus kerathurus,  
P. duorarum, Callynectes and Neptunus.

FAO:hr

M

Anonymous (1957) 571870  
Pêche marit., (956):498  
La disparition de la morue aux îles  
Lofoten (Disappearing of cod at  
the Lofoten islands)

Transcript of a conference considering  
the problems of disappearance of  
Gadus callarias from Lofoten Is. and  
its migrations to the Barents Sea,  
as well as the international  
implications of the cod fishery in  
those areas.

FAO:hr

M

Anonymous (1957) 571868  
Qd Fish., 4:5-6  
C.S.I.R.O. fish tagging programme

Reports recaptures of 5 sea mullets and  
one tarwhine in Queensland waters  
during 1955 and 1956.

GLK:sjh

M

Anonymous (1957) 571871  
Chron.World Hlth Org., 11:255-60  
Disposal of radioactive waste

MF

Anonymous (1957) 571869  
New Scient., 2(50):30  
Deep-sea midgets

Reports an undamaged crustacean taken  
at 13,200 feet depth in Congo Sub-  
marine Canyon and a worm at 16,200 feet  
at Cape Basin (S. Africa) by nylon  
trawl worked from R.V. VEMA during IGY  
programme.

FAO:sjh

M

Anonymous (1957) 571872  
Shipp.Ship.Rec., 89(4):104-5  
The disunited nations and oil pollution

Discusses the UN report (ST/ECA/41) and  
quotes from it to show the hesitation  
of most nations (but not of the UK) to  
take positive measures against oil-  
pollution.

FAO:clk

MF

Anonymous (1957) 571873  
Comm.Fish.Rev., 19(12):28-9  
Driving herring schools with compressed-  
air curtain

Brief account of experiments with  
description of the gear used.

FAO:efa

M

Anonymous (1957) 571876  
Progr.Fish Cult., 19:184  
Effects of jaw tags and fin-clipping  
on returns of stocked trout

Comparisons based on stocking  
experiments, with Salvelinus fontinalis  
and Salmo gairdneri.

WAD:wad

F

Anonymous (1957) 571874  
Lab.Leafl., Lowestoft, 17:9 p.  
Echo sounding in East Anglia - It works

Ill. account of location of Clupea  
harengus, pilchard and horse mackerel.  
Types of trace and their variability  
and identification. Quantitative echo-  
surveys - how they are conducted and  
the observations interpreted. Relation  
of trawling results and echo-survey for  
cod in Barents Sea.

SJH:sjh

M

Anonymous (1957) 571877  
Progr.Fish Cult., 19(2):67  
Effects of jaw tags observed under  
hatchery conditions

Describes results of an experiment with  
Salmo gairdneri.

WAD:wad

F

Anonymous (1957) 571875  
Comm.Fish.Rev., 19(12):24-5  
Effect of dams on lower Susquehanna fish  
populations to be studied

Notes on the objective of the project;  
biological studies, and effects of dams  
on young and adult fish.

FAO:efa

F

Anonymous (1957) 571878  
Penn.Angler, 26(3):12  
Electric fish shocker at work

Pictorial note on apparatus at work.

GLK:tjj

F

Anonymous (1957) 571879  
Comm.Fish.Rev., 19(12):71-2  
Expansion of North Sea fishing operations  
planned

Russian plans to concentrate more  
attention on North Sea fishing prepared  
by Baltic Research Institute of  
Oceanography.

FAO:sjh

M

Anonymous (1957) 571882  
Qd Fish., 4:2-4  
External anatomy of a bony fish

Sets out briefly, with aid of rough  
diagram, the characteristics of size  
and body proportions, fins, head, scales  
and gills.

GLK:sjh

MF

Anonymous (1957) 571880  
Comm.Fish.Rev., 19(12):22-3  
Experimental fishing for red snapper in  
Gulf of Mexico (M/V SILVER BAY cruise 4)

Gives locations of fishing stations;  
specification of gear used, and rate  
of catch hour.

FAO:efa

M

Anonymous (1957) 571883  
Ijsselmeervisserij, 15 Aug., p. 4  
F.A.O. Raadgevende Commissie voor  
visserij in Europese binnenwateren  
(F.A.O. Advisory Commission for  
European Inland Fisheries)

WAD

F

Anonymous (1957) 571881  
Comm.Fish.Rev., 19(12):29-31  
Exploratory fishing cruise to Alaskan  
waters completed (M/V TORDENSKJOLD  
cruise 32)

Brief account of TORDENSKJOLD cruise 32,  
with notes on distribution of king crab,  
bottom fish and shrimp.

FAO:efa

M

Anonymous (1957) 571884  
Quart.Bull.S.Pacif.Comm., 7(1):39-42  
FAO's work in world fisheries

MF

Anonymous (1957) 571885  
World Fish., Oct.:69-70  
Finding fish on the sea bed

Short ill. note on "white line"  
technique of distinguishing fish echoes,  
and on a new design of equipment for  
open boats.

FiB:sjh

M

Anonymous (1957) 571886  
Chamber's Encyclopaedia World Survey,:  
106-10  
Fisheries

A review of the history of international  
cooperation with regard to fisheries  
especially since World War II, with map  
of areas served by regional organizations  
and table of country membership of these  
bodies.

SJH:sjh

MF

Anonymous (1957) 571887  
New Scient., 3(57):17  
Fishing in New Guinea

Announcement of beginning of operations  
of 60-foot F.R.V. TAGULA off southern  
coast of Papua. Programme includes  
pilot freezing studies, gear improvement  
experiments, and demonstration to local  
fishermen.

FAO:sjh

M

Anonymous (1957) 571888  
Engineer, London, 204:572-3  
Flash evaporator for continuous  
distillation of sea water

M

Anonymous (1957) 571889  
Comm.Fish.Rev., 19(12):74-6  
"Flying Saucer" float

New English design of metal trawl float,  
described and figured.

FAO:sjh

M

Anonymous (1957) 571890  
Comm.Fish.Rev., 19(12):27  
Haddock tagging and collecting cruise  
completed (ALBATROSS III cruise 104)

A brief account of ALBATROSS III cruise  
104, with notes on and numbers of  
tagged haddock, cod, halibut and dogfish.

FAO:efa

M



Anonymous (1957) 571891  
Progr. Fish Cult., 19(2):84  
Handling minnows in perforated plastic bags

Describes use of polyethylene bags for the bait minnows Pimephales promelas and Hyborhynchus notatus for holding and transit.

WAD:wad

F

Anonymous (1957) 571894  
Trade News, 10(3):3  
Inspection vessel joins fisheries fleet

Entry to service, and program of work of BELLE BAY.

WAD:sjh

M

Anonymous (1957) 571892  
Fish Ind., Moscow, (12):3-5  
Usilit' rol' rybokhoziaistvennoi nauki v razvitii rybnoi promyshlennosti  
(Increasing the role of fishery science in the development of the fishing industry)

FAO

MF

Anonymous (1957) 571895  
Discovery, 18(7):277-8  
The International Geophysical Year

A popular account of the purpose, aims and programme.

FAO:tl

M

Anonymous (1957) 571893  
Africa, Madrid, 14(183):117-8  
La industria pesquera en Africa Occidental Española (The fishing industry in Spanish W. Africa)

II

Anonymous (1957) 571896  
Trans. Amer. geophys. Un., 38:1016-9  
IGY Bulletin - Arctic Ocean submarine ridges

Review of the bathymetric features and water circulation in Arctic Ocean as measured from the drifting stations ("ice islands").

TL:tl

M

Anonymous (1957) 571897  
Trans.Amer.geophys.Un., 38:1019-21  
Bulletin - Oceanographic island  
observatory in Iceland

Description of the observatory and its  
programme, with emphasis on the micro  
wave recording problems.

FL:tl

M

Anonymous (1957) 571900  
Fish.Inf.Bull., Sept. 13, p. 149  
Law of the sea conference

Describes arrangements for U.N. meeting  
to be held in Geneva, Feb.-Apr. 1958.

FAO.sjh

M

Anonymous (1957) 571898  
Fish.Inf.Bull., Sept. 27, p. 159  
Japanese study of Brazilian fishery  
resources

Report of exploration by R.V. TOKO MARU  
since December, 1956, for tuna off Rio  
Grande do Sul and Rio de Janeiro.

FAO:sjh

M

Anonymous (1957) 571901  
Fish.Inf.Bull., Sept. 27, p. 157  
Louisiana Canal's effects on fish and  
wildlife

Reports a letter from U.S. Secretary  
of the Interior to the Secretary of the  
Army concerning the possible effect of  
Mississippi River-Gulf Project in  
Louisiana on commercial and sport  
fishery resources.

FAO:sjh

MF

Anonymous (1957) 571899  
Qd Fish., 4:4-5  
Keep an eye on the gannets

An account of bird surveys.

GLK:sjh

M

Anonymous (1957) 571902  
Chron.Outre-Mer, 31:54-6  
Madagascar; un poisson du lac Itasy  
(Madagascar; a Lake Itasy fish)

Description of an autochthonous fish  
species found in Lake Itasy (Madagascar),  
Ptychochromis betsileanus may easily be  
confused with Paratilapia polleni. As  
attempts to transfer this fish to  
Tananarive have failed, an investigation  
was made to obtain data regarding its  
habitat and oxygen requirements.

:glk

F

Anonymous (1957) 571903  
Spi.Pêche, 48:5-6  
Marquage des maquereaux (Tagging of  
mackerel)

A short note on tagging of 1500 Scomber scombrus by the research vessel  
PRESIDENT-THEODORE-TISSIER in 1957 at  
the west entrance of the English Channel.

FAO:hr

M

Anonymous (1957) 571906  
New Scient., 2(48):8-9  
A mystery of the sea floor

Feasability of obtaining samples of rock  
underlying thick sediments at depths of  
the order of 200 metres and more.

FAO:sjh

M

Anonymous (1957) 571904  
Progr.Fish Cult., 19:192  
Maximum - minimum water gauge

Describes an inexpensive and simple  
gauge to record fluctuations in water  
level.

WAD:wad

F

Anonymous (1957) 571907  
Progr.Fish Cult., 19(1):31  
Neutralizing electrostatic charge on  
rolling-mill scale press

Use of "Staticmasters" (brushes with  
strips of radioactive polonium) for this  
purpose on press for plastic impressions  
of fish scales.

WAD:wad

F

Anonymous (1957) 571905  
Comm.Fish.Rev., 19(12):54-5  
Modern trawler to investigate fishery  
potential of Great Australian Bight

Brief review of the Australian fishery,  
with notes on the new project of  
commercial trawling in the Bight.

FAO:efa

M

Anonymous (1957) 571908  
Fish.News Lett.Aust., 16(8):5, 27  
New prawn ground discovery on first  
stage of year's survey

Preliminary announcement of finding  
Penaeus plebejus, P. esculentus and  
P. merguensis in southern Queensland  
waters near Hervey Bay.

GLK:glk

M

Anonymous (1957) 571909  
Comm.Fish.Rev., 19(12):55-7  
New shrimp resource discovered on first  
stage of year's survey

Gives location of extensive new ground  
near Queensland, with a description of  
of the government chartered trawler  
CHALLENGE to fish on the ground.

FAO:efa

M

Anonymous (1957) 571910  
Keesing's contemp.Arch., 1957-1958,  
15501, A.  
Oceanography - Discovery of 45,000-mile  
fissure in the world's ocean beds:  
Connexion with world earthquake zone  
Ill. account of announcement by M. Ewing  
and B. Heezen.

:sjh

M

Anonymous (1957) 571910  
Fish.Inf.Bull., Sept. 13, p. 152  
Northeastern Pacific albacore survey

Reports completion of survey of fishing  
grounds made by 2 research vessels and  
7 chartered vessels, sponsored by the  
U.S. Bureau of Commercial Fisheries.

FAO:sjh

M

Anonymous (1957) 571913  
Rapp.Landbouw-Econ.Inst., 257:31 p.  
Onserzoek naar de bedrijfsresultaten van  
de garnalenvisserij in 1954 en 1955  
(Investigations on the draft results of  
the shrimp fishery in 1954 and 1955)  
Investigations of the catch on different  
grounds and of the economy of the Dutch  
shrimp fishery.

:tl

M

Anonymous (1957) 571911  
Industr.pesq., (734):14-5  
La oceanografía y la pesca  
(Oceanography and fishery)

FAO

M

Anonymous (1957) 571914  
Comm.Fish.Rev., 19(12):22  
Otter-trawling and gill-netting survey  
of eastern Lake Erie (M/V/ CISCO cruise 8)  
Account of survey of fishery resources  
in the lake with notes on spp.  
composition of catches and hydrographic  
conditions at the time of survey.

FAO:efa

F



Anonymous (1957) 571915  
Fish. News Lett. Aust., 16(12):13  
PAPA-N.G. fishery research ship

Brief account of design, equipment,  
proposed operations and area in which to  
be used.

GLK:glk

M

Anonymous (1957) 571916  
Comm. Fish. Rev., 19(12):57-8  
Pearl-shell operations off Australian  
coast by Japanese in 1957

Brief review of the activities of  
Japanese fishermen; conservation measures  
taken, and prohibitions against operating  
within 10 miles of mainland.

FAO:efa

M

Anonymous (1957) 571917  
Pêche marit., 36:302-3  
La pêche du thon en Côte d'Ivoire  
(Tuna fisheries along the Ivory Coast)

Notes on the fishery.

FAO:ar

M

Anonymous (1957) 571918  
Penn. Angler, 26(1):12-3  
Pennsylvania fishes

Contains information on range, habits  
and characteristics of Minytrema mela-  
nops, Brimyzon oblongus, Osmerus mordax,  
Notemigonus crysoleucas, Notropis  
hudsonius and Notropis atherinoides.

GLK:hr

F

Anonymous (1957) 571919  
Penn. Angler, 26(2):12-3  
Pennsylvania fishes

Contains data on distribution and life  
history, and feeding habits of Pime-  
phales promelas, Rhinichthys atratulus,  
Nocomis biguttatus, Eucalia inconstans,  
Noturus flavus, Notropis cornutus,  
Chrosomus erythrogaster, Boleosoma  
nigrum.

GLK:hr

F

Anonymous (1957) 571920  
Lab. Pract., 6:721-6  
pH equipment in the laboratory

MF

Anonymous (1957) 571921  
Marchés trop.Monde, 13(592):726-7  
La pisciculture s'est considérablement  
développée en 1956 (Pisciculture  
expanded considerably in 1956)

F

Anonymous (1957) 571924  
Contract.Rec., 68(6-7)  
Radioactive probe traces sewage

MF

Anonymous (1957) 571922  
Outdoor Calif., 18(4):1  
Poll shows hunting, angling spending in  
state  
  
Describes methods used in and results of  
a survey made in California, U.S.A. in  
1955.

WAD:wad

MF

Anonymous (1957) 571925  
Progr.Fish Cult., 19:178  
Rainbow trout bred in salt water  
  
A brief description of Salmo gairdneri  
culture in a salt-water-farm in  
Denmark

WAD:wad

M

Anonymous (1957) 571923  
Comm.Fish.Rev., 19(2):23-5  
Preliminary experiments to develop a new  
mechanical method for control of oyster  
drills

On the basis of experiments the method  
of burying the drills (Urosalpinx  
cinerea) by bottom plowing is  
recommended. Bottom plowing as a method  
of drill extermination should be  
repeated at about two-week intervals  
to eliminate the drills escaped from  
the first plowing.

FAO:sjh

MF

Anonymous (1957) 571926  
International Pacific Halibut Commission,  
(25)  
Regulation and investigation of the  
Pacific halibut fishery in 1956

M

Anonymous (1957) 571927  
New Scient., 2(48):7-8  
The Russians look into space

Reports research in progress in USSR on palatability of algae and derived products as food for space travel.

FAO:sjh

F

Anonymous (1957) 571930  
Fish.Inf.Bull., Sept. 13, p. 151  
Shrimp in Australia

Reports discovery by Government Survey, and beginning of exploitation of grounds 6-20 miles off S. Queensland near Fraser and Gt. Sandy Island, in 35 fathoms.

FAO:sjh

M

Anonymous (1957) 571928  
Qd Fish., (3):3-5  
The sand crab (Portunus pelagicus)

Notes on the structure, habits, parasites and catches of Portunus pelagicus.

GLK:hr

M

Anonymous (1957) 571931  
Comm.Fish.Rev., 19(12):23-4  
Shrimp, tuna, and live-bait explorations off Central America (M/V OREGON cruise 46)

Brief account of exploratory shrimp trawling, tuna fishing and determination of live-bait availability. Incl. locations of stations and figures for catches.

FAO:efa

M

Anonymous (1957) 571929  
Comm.Fish.Rev., 19(12):27  
Sea scallop tagging and spawning observations (M/V ALBATROSS III cruise 103)

Brief account of ALBATROSS III cruise 103, with notes on spawning condition of scallops; tagging; underwater photography, and hydrographic data collected.

FAO:efa

M

Anonymous (1957) 571932  
Progr.Fish.Cult., 19(1):13  
Simplified transport for smaller numbers of salmonids

Describes aeration equipment readily adaptable to use in passenger automobile using car battery, vibrator converter, piston pump and rubber tube manifold system.

WLD:wad

F

Anonymous (1957)  
Louisiana Conserv., 9:19-20  
Skin divers wage war on gar!

571933

Description of reduction of gars by  
underwater spearing (skin diving) in  
Louisiana.

FAO:wad

F

Anonymous (1957) 571936  
Science, 126:920  
Stagnant deep-sea trench to be studied

Notes on the programme of research for  
ATLANTIS to study a trench in Caribbean  
Sea.

FAO:efa

M

Anonymous (1957) 571934  
Comm.Fish.Rev., 19(12):31-2  
Skipjack tuna concourse areas survey  
completed (JOHN R.MANNING cruise 37)

Account of observations made on the  
distribution, food and behaviour of  
the sp. in Hawaiian waters.

FAO:efa

M

Anonymous (1957) 571937  
Progr.Fish Cult., 19(2):91  
Studies on Tilapia in Taiwan

Note on physiological and ecological  
studies.

WAD:wad

F

Anonymous (1957) 571935  
Comm.Fish.Rev., 19(12):32-3  
Sockeye salmon enter Willamette river for  
first time

Reports run of Onchorhynchus nerka in the  
river system as a product of fingerlings  
released in adult salmon holding pools  
at Dexter Dam.

FAO:efa

MF

Anonymous (1957) 571938  
Discovery, 18(3):98-9  
Synthetic detergents and foaming in  
sewage

Review and comment on Ministry of  
Housing and Local Government. "Report  
of the Committee on Synthetic Detergents",  
H.M.S.O., London, 1956.

FAO:sjh

F



Anonymous (1957) 571939  
Visão, São Paulo, 13:39, 41  
 O TOKO-MARU gostou. Não precisamos de  
 bacalhau (The TOKO-MARU liked it.  
 We do not need cod fish)

Comments on Brazilian fish imports. The  
 "pirarucu" fisheries in the Amazon river.  
 Results of the study made by the Japanese  
 vessel TOKO-MARU to explore the fishery  
 possibilities of the Brazilian coast.  
 Table of quantity (t) and value (Cr\$) of  
 cod fish imports, 1936/56.

FAO:hr

MF

GLK:hr

M

Anonymous (1957) 571940  
New Scient., 2(47):11  
 Trawlers and transom sterns

Briefly describes changes in bow and  
 stern shape in new British deep-sea  
 trawlers, and their effect on speed.

FAO:sjh

M

Anonymous (1957) 571943  
Comm.Fish.Rev., 19(12):58  
 Tuna resources off Western Australia

Brief notes on occurrence of Neothunnus  
tonggol, Euthynnus alletteratus,  
Neothunnus macropterus, Katsuwonus  
pelamis and Gymnosarda nuda.

FAO:efa

M

Anonymous (1957) 571941  
New Scient., 3(54):32  
 Trends and discoveries - Currents and  
 submarine cables

Brief review of 570474.

Anonymous (1957) 571944  
Progr.Fish Cult., 19:167  
 Two modifications of the Secchi disk

Describes methods of attaching rules to  
 disks used in farm-pond studies.

FAO:efa

M

WAD:wad

F











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